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FINANCIAL TIMES

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**10p



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NEWS SUMMARY

GENERAL

Israelis bomb guerilla base

BUSINESS

Oil price rise could spark retaliation

BY ROY ROGERS, LABOUR CORRESPONDENT

National Union of Railwaymen's leaders, who meet this afternoon to discuss the intense political pressure put on them over the weekend to call off the strike planned to begin next Monday, are expected to confirm the strike decision.

But in doing so they may suggest further negotiations with the British Railways Board on their demands for pay increases of 30 per cent. to 35 per cent.

The entire 24-man NUR national executive was at 10 Downing Street on Saturday evening where Ministers, including the Prime Minister, the Chancellor of the Exchequer, Mr. Denis Healey, and Employment and Environment Secretary Mr. Michael Foot and Mr. Anthony Crosland, spelled out the "catastrophe" effect a rail strike would have on the economy.

Mr. Healey did most of the talking, emphasising that last week's run on the pound had been the result of the NUR's strike threat alone. On that basis, he argued, an actual strike would have disastrous effects on the economy.

The NUR men were left in no doubt that the Government was prepared to fight if they held out for their full claim. They did not get the impression that the 27.7 per cent arbitration award on offer to railmen was the absolute limit.

Speaking in a BBC radio interview yesterday, Mr. Foot said the Government would fight to prevent the strike. There was no idea of the Government wanting a showdown with the union.

We wish to avoid a strike just as much as the union does," he said. "A strike would poison the atmosphere of dealing with inflation and would be a catastrophe."

Government pressure to re-open negotiations is now expected to be applied to the BR Board, which only last week told the NUR it could not improve on the tribunal award.

Any fresh negotiations would, however, have to include the two other rail unions which, although they have already accepted the tribunal award, are likely to seek a share in any improved offer to the NUR.

This could prove difficult because any moves of the NUR's male demand of improvements for the over-paid railwaymen to put the men fighting for behind surface miners, electricity supply workers and postmen, may upset the Associated Society of Locomotive Engineers and Firemen and the Transport Salaried Staffs Association who are anxious to preserve differentials restored by the percentage tribunal award.

At Saturday's Downing Street meeting, Mr. Wilson urged the NUR leaders against making any hasty decision on the strike. Accordingly, after a brief meeting at the union's Euston headquarters, concerned mainly with strike preparations, the executive was adjourned until this afternoon. Since their reading of the situation is that there might be at least some more money around, there appears to be little chance of the strike being called off to day.

Meanwhile, pre-strike meetings of NUR members are being held throughout the country. At one of the first of these yesterday more than 3,000 members from six Crewe area branches voted unanimously to support the union's strike call.

The CBI starting point in the negotiations will probably be their recently agreed policy of seeking to negotiate a fixed percentage limit for pay deals, reviewable each year, and designed to reduce inflation by no more than 8 per cent. within three years.

The need for tighter wage guidelines than those embodied in the social contract is underlined by several sets of wage negotiations taking place over the next week or so as the annual pay round draws to a close.

In addition to the railwaymen's continuing pay dispute, leaders of 400,000 local government white collar workers are threatening industrial action unless they receive an improved offer to their 35 per cent. demand at talks to-day. An offer of 31.7 per cent has been rejected.

Steeworkers and merchant navy seamen also have pay claims for demands of 30 per cent. or more outstanding.

Snags ahead for TUC pay talks

BY OUR LABOUR STAFF

THE TUC and CBI will this week open a new phase of key negotiations aimed at reducing the level of wage settlements currently running at about 30 per cent.

But these talks, called at the invitation of the TUC, could face a severe setback even before they begin on Wednesday evening.

For the annual conference of Britain's second largest union, the Amalgamated Union of Engineering Workers, which opens in Hastings today is set to discuss, and the signs are it will carry, a motion from its technical and supervisory section (TASS) calling for the rejection of "the concept of the social contract".

An anti-contract decision from the AUEW may well produce waves of reaction at other union conferences. In particular, Mr. Jack Jones, architect of the contract and prime mover in negotiations for more effective guidelines, could have greater difficulty in securing a pro-contract line from his Transport and General Workers Union annual conference in a fortnight's time.

In the meantime, however, he will continue promoting his suggestion of common date-rate pay increases for all workers with the level of payment negotiated with the CBI and all pay disputes referred to binding arbitration.

Although not yet adopted by the TUC—indeed, some craft-based unions oppose it on the grounds that it would upset pay differentials—the "Jack Jones" plan has emerged as the front runner among several ideas to be considered by the TUC General Council next week.

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Labor News Page 5

More competitive approach

BSC adopts flexible price policy

BY KENNETH GOODING, INDUSTRIAL CORRESPONDENT

THE British Steel Corporation is per cent. There are also changes in the prices for some sizes of structural steels. These are a new policy aimed at a more flexible and more competitive market will stand it.

The strip mills division also hopes to push up production by going hard for exports and is aiming for more reliable delivery and better quality control.

The Corporation is going to look for contracts to manufacture for the U.K. downturn in demand and hopes that they will reach 3.5m. tonnes this year against 2.9m. last year. Pricing is paying its part and the BSC is working on rock-bottom prices in the U.S., according to Mr. Waterstone.

He did not expect any recovery in U.K. demand until at least the middle of next year "and perhaps even later."

Production figures for last month show the size of the Corporation's problems. Weekly output for the industry was down 21.8 per cent. on the previous month and 24.4 per cent. below that of May last year. Last year was a poor year for the U.K. steel producers with production at 22.5m. tonnes or 16 per cent. down on 1973.

Previously, although nominally free under the European Coal and Steel Community regulations to fix most of its own prices without referring them to the U.K. Government, the BSC had to fight hard to get the increase it has needed. There have been many recent occasions when it had to compromise on the level of price rises after discussions with the Department of Trade.

Now it seems set to enter a new era, one where the Government will apparently take on the role of an interventionist role in the Corporation's pricing policies.

Our Sheffield correspondent writes: The BSC price increases would make it difficult for some forgers and re-rollers who are dependent on BSC for supplies to stay in business. Mr. Lawrence Mealey, chief executive of Doncasters Sheffield said yesterday.

Difficulties

He was highly critical of the BSC decision to impose some of the British increases on steel where it holds a virtual monopoly. Doncasters Sheffield, heavily involved in work on North Sea oil orders, faced price increases for some grades of steel of about 60 per cent. since last December.

The increases made it hard to continue the build up of a successful export market and presented difficulties with customers who ordered before the BSC price rise in January.

Editorial comment Page 14

Varley and Lever split over Industry Bill

BY JOHN BOURNE, LOBBY EDITOR

ARGUMENTS AMONG senior in spite of the opposition of the industrial and economic CBI to various parts of the Bill. Ministers about the changes—their Prime Minister Government should propose to will meet CBI representatives its controversial Industry Bill this week, probably tomorrow—are expected to be resolved later there should be hardly any change.

Mr. Varley is said to want radical alterations, particularly to the clauses giving the Industry Secretary power to compel companies to disclose confidential information to their employees.

Mr. Varley, however, is reported to be determined to keep any changes to an absolute minimum.

The Prime Minister will obviously have the final say. He is thought likely to choose a course laying down voluntary disclosure of information as the norm and limiting Mr. Varley's powers of compulsion.

A good deal of work by Ministers remained to be done on the Bill, quite apart from their discussions with the CBI which will also be attended by Mr. Denis Healey, the Chancellor of the Exchequer, at a meeting in the week with the TUC economic committee.

Yesterday Mr. Michael Heseltine, the Opposition spokesman on Industry, said he wanted

urgent talks with Mr. Varley to put before him "a programme to restore confidence to British industry."

Earlier Mr. Heseltine said that the PM had promised the Industry Bill would be amended if it did not comply with the White Paper, the Regeneration of British Industry.

I believe the extension of time on the Report Stage is the first indication that he now intends to confront the Left wing and at the same time honours his pledges. We cannot say yet whether three days on Report Stage is enough until we see the form the amendments take."

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Under the Bill, rescues of insurance companies in difficulty are to be paid for by a levy on the insurance industry. The companies say that in the event of a rescue no more than 90 per cent. of benefits to which an individual policyholder is entitled should be paid out.

When the Bill was published in April and Clause 16 was included, the British Insurance Association campaigned against it. Leaders in the industry said that it was unacceptable while Clause 16 was included and began to plan to try to secure a Parliamentary defeat for the Government if changes were not made.

The Government said in its Queen's speech in October that it would introduce legislation to

protect private policyholders of be limited to the protection of insurance companies which become failed. The announcement came much more expensive to another state of failures implement.

In May, the Government companies—most notable of withdrew Clause 16 (while con-

cerning the collapse of National Life, the life assurance com-

pany in Mr. William Stern's financial group.

Collapsed

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The industry objected to the

grounds that this could, in effect,

permit the rescue of insurance companies, including their share-

holders, trade creditors and

corporate and not just individual

policyholders. It said that in

itself, the Policy Holders

Protection Bill would cease to

exist.

The industry feared that the

Government was taking powers

which could enable it to extend

vastly the scope of the rescue

proposals. It believed that new

legislation would be needed to

do this if the clause were

eliminated.

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LOMBARD

Inflation—where the guilt lies

BY C. GORDON TETHER

If it is possible for the Chancellor of the Exchequer to give an undertaking "to reach conclusions with a view to halving the rate of inflation in the next 12 months," why are we now in the grip of an inflation so closely resembling the runaway type that the country is in danger of experiencing total monetary collapse?

One of the most infuriating aspects of the contemporary British scene is the way in which politicians are forever haranguing the nation about the inflation menace as though no real blame for that phenomenon is attached to themselves. It is now 15 months since the Labour Government came to power. Yet hardly a day passes without a Minister issuing a grave warning about inflation couched in such terms as to foster the impression that, as it is, the behaviour of the public which is primarily to blame, only a change in public attitudes can bring an improvement.

For their part, the Tory leaders—out of the offices—attribute the responsibility between the Government and the nation at large. But they omit to mention that, during their three-and-a-half year stint, that ended early last year, the inflation rate almost doubled to climb well into the double figures "danger zone."

And, as they will know, the foundations for that performance were well and truly laid when they decided, after taking office in mid-1970, to let dogma take precedence over realities and hand over all responsibility for wage settlements to unions and management.

Admitting it

The only satisfactory way to deal with a threat of runaway inflation as I was continually pointing out when we still had to break the "double figures" barrier, is to prevent it emerging. And since there is no duty that rests on Governments more squarely than taking proper care of the cornerstone of the economic, financial, political and social edifice—the money unit—the main responsibility for the present frightening situation lies with the political leadership.

The Chancellor tacitly admits this, indeed, by making a pledge to halve the inflation rate within a year. For if the Government can make no commitment of this kind now, it could have done before. Yet what was actually done was to repeat the Tory blunder of allowing doctrinaire triumph over commonsense and planning its flag—collective bargaining on the unions' part resorting to incomes control

would be disastrous. What, it may well be asked, could have been more disastrous than doing without incomes control?

And all this time, let it be remembered, the Opinion Polls have been consistently demonstrating that the nation's whole-hearted support would be available for a concerted and fair-minded drive to halt the wages spiral—such is public concern about the fall in the value of money and its debilitating repercussions.

It is soinefing, of course, that the Government has at last recognised that it ought to be doing more than standing idly by while the rampages of inflation carry the country nearer and nearer to the brink of the final catastrophe. But it is as well to understand that, due to no small measure to the prolonged delay in coming to grips with the problem, the cards are now stacked against Britain in the inflation tussle since, in a way that they are not for other industrialised countries,

Against tide

The fact that Britain is having much less success than most of them in slowing the wages-prices spiral is, no doubt, partly attributable to the poor quality of their economic management. But it is also true that there are at least two important respects in which we are having to swim very much against the tide whereas, in their case, it is the other way round.

In the first place, owing to the U.K.'s deep involvement in the international "banking" system, the efforts being made here to combat the rise in prices are being seriously impeded by the behaviour of the exchange rate whereas in many other cases they are being materially reinforced by it. In the second place the considerable assistance that many industrial countries, outside the EEC, are getting from the headings fall in food prices on world markets, is largely denied to Britain by reason of her participation in the common agricultural policy of the EEC.

The moral of the story—that the whole nation is apt to have to pay a terrible price for an official failure to see that a heavy responsibility rests on the State to safeguard the monetary unit—hardly needs to be underlined. If there is any capacity for learning from experience in Britain's corridors of power—and one can be forgiven for sometimes wondering whether there is—it is happening now and should surely ensure that this obligation is never again overlooked in the wanton fashion it has been in recent years.

TV Radio

* Indicates programme in black and white.

BBC 1

8.35 a.m. For Schools, Colleges, You and Me. 11.00 For Schools, Debates. 12.30 p.m. The Sunday Debate. 12.30 Mary, Mum and Midwife. 1.15 News. 2.35 Regional News (except London). 4.00 Play School. 4.35 The Clangers. 4.35 Jackanory. 4.50 Blue Peter. 5.15 Hong Kong. 5.45 News. 5.45 Roobarb. 6.00 Nationwide. 6.30 Star Trek. 7.40 Whatever Happened to the Likely Lads? 8.10 Panorama. 8.30 News.

9.35 Kojak. 10.10 Churchill's People. 11.05 Choices for To-morrow. 11.30 Regional News.

All programmes as BBC 1 except the following:

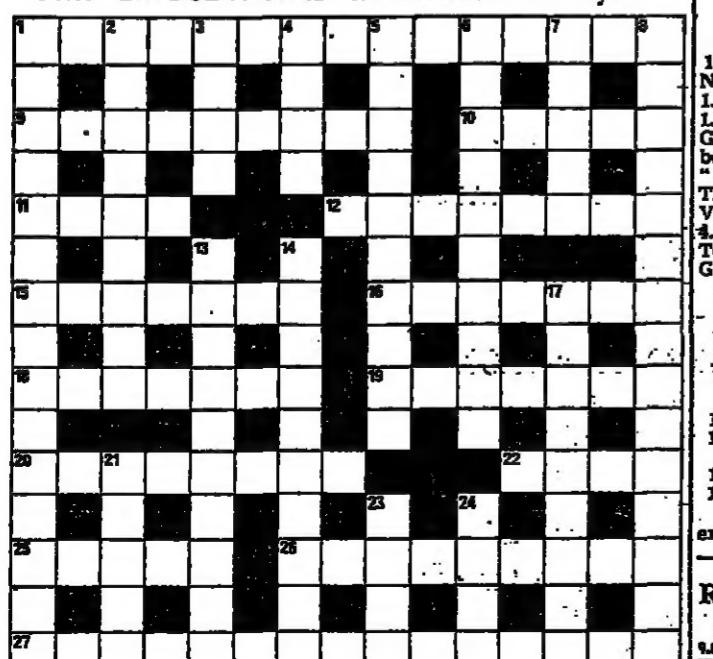
Wales—1.20-1.45 p.m. Pill Pals. 8.00-8.30 Wales To-day (from Cardiff). 10.30 (Spotlight South West (from Plymouth).

Party Conference: reports on the Conservative Party in Wales Conference at Aberystwyth. 10.25-10.50 Nationwide. 11.00-11.30 Farming. 11.30-11.45 Wales To-day (from Cardiff). 12.30 (Spotlight South West (from Plymouth).

12.30-1.15 Choices for To-morrow followed by Scottish News Summary.

News. 8.00-8.30 Scene Around Six. 9.15 Northern Ireland News Headlines.

F.T. CROSSWORD PUZZLE No. 2,804





Lyonel Feininger: Ships in Fjord (ink and watercolour on paper)

Achim Moeller

Lyonel Feininger

by WILLIAM FEAVER

Lyonel Feininger started as a cartoonist. He didn't finish his first oil painting until he was 36. He was a late developer. But throughout his career he retained some of his caricature devices, the bare minimum lines, the tendency to diagrammatise. Indeed, his way of representing towers, skyscrapers and sailing boats had a strong element of scene-setting about it, as though a joke or a drama were about to develop on the spot. Not that this is the way he intended his later work to be regarded. The subtitle to the exhibition of his work at Achim Moeller's gallery is "Visions of City and Sea," a sonorous phrase implying the highest possible intentions. However Feininger's work does seem to me to be rather caricature version of vision. There is never the sense of liberation, of imaginative boundlessness, of fierce intensity that true vision involves. His paintings and drawings appear mapped out, metaculously refined, with every line scratched in as though etched. Slight bleedings where the ink spread over the wet stopped working for the papers,

covers the divide between commercial wit and the development of a more private sensibility. The drawings are set-square, gaunt angular in a top hat poses with his catch while all around other, near-identical figures watch and fish fruitlessly. From that to drawings in which the figures are reduced to triangulations is only a slight development. And from these to landscapes in which even the sun is squared off is, again, not much of a leap forward.

There is nothing wrong in this—the distinctions so often made between the art of caricature and fine art proper, as between illustration and drawing for a drawing's sake, are largely determined by snob values: however Feininger's work does seem to me to be rather caricature version of vision. There is never the sense of liberation, of imaginative boundlessness, of fierce intensity that true vision involves. His paintings and drawings appear mapped out, metaculously refined, with every line scratched in as though architectural schemes.

Lyonel Feininger is at Achim Moeller until July 18.

Aldeburgh Festival

Richter

by GILLIAN WIDDICOMBE

To Blythburgh, once a flourishing medieval port, now a pretty village mid heath and marsh. T. Blythburgh church, where oysters burgle in a rough clover meadow, sits on oak benches as old as they are uncomfortable, and stares at a superb wooden ceiling with frescoes and carved angels, as good for sound as visually beautiful. To Blythburgh, last week, to hear Sviatoslav Richter play a stunning Beethoven recital. Richter had not played in Britain for five years, and kept the audience waiting for nearly 20 minutes. Eventually he came on, looking relaxed and genial. Lights were turned down, so that as the evening darkened, spotlights in the transept lit him only as a black silhouette. A dramatic evening. Bedazzled, in several senses, we stared rapt at the guff, inscrutable profile, sharing imaginings of demon rage and serene dreams. The Hammerklavier was the

evening's throne, but first whirling drills—there is never Richter played the C major sonata Op. 2, No. 3, and three Bagatelles from Op. 1 to 6. The sonata, a clear demonstration of Richter's rhythmic energy, was perfectly suited to Richter perfectly as a rising. As he pitches into a beginning, with its nonchalant opening phrase, and so many of the ructions of later sonatas previewed in miniature, Richter can easily drive to the next point of without dredging his fervour. The Hammerklavier was remember a Festival Hall recital, say ten years ago, when he gave a mad tiger, but last week was more mellow, bountiful, capturing the playful humour in lyrical phrases, the pressing energy of rapid scales, and the whirlwind attack of snapping cadences. The exposition repeat was turned to perfection; phrase colouring similar but never the same—the musical equivalent of the same picture viewed from a new angle. Fascinating to realise that no matter how spectacular some of his pianistic effects—twinkling trills driven so hard that they bite the piano tone like

the Hommerklavier was wonderful, powerful in detail, indescribable. A hungry, tortured performance, in general, but the slow movements, in particular, in reverie as the opening octaves were pounding with loud thunder. But its most rare feature was that improvisation, searching quality—when Beethoven hesitates, wonders, wanders what next?

Richter approached these juxtapositions rather simply, avoiding clever emphases and sophistry. He could play straight through the Beethoven sketch books, and make each fragment, and its reworking, sound alive and amazing!

Greenwich Theatre

The Knight of the Burning Pestle

by B. A. YOUNG

Beaumont and Fletcher's City pantomime does not call for any restrictive comedy makes an admirable subtlety of playing; all that is comedy of the play is founded relaxation for a summer evening required is apt invention and on the antics of an intrusive citizen and his wife who insist that the prepared production (a conventional romance about an apprentice lad who steals away with someone's daughter) shall be altered to give a good part to their own apprentice, Rafe (Gordon Reid).

The company is surprisingly decent about it. They don't actually involve Rafe in the plot of their play, but they are happy to leave the stage every now and then to make room for some fresh caprice of their patron's Rafe begins as a knight, a soldier, a man as he calls himself for he is most loyal to his Company, and on his very death-bed, an arrow transfixing his head from side to side, he prays that his soul may go to Grocer's Hall. Later he has more extravagant duties—to kill giants, to marry a king's daughter, to drill a company of volunteers like Col. Heath of the H.A.C.

Sam Walter's cheerful production is full of music. Merry thought, one of the citizens (David King), seldom speaks at all, but prefers to sing through life, naturally losing his wife, his children, and his fortune as he does so. But the others sing too, sometimes alone, sometimes in concert, and a lady guitarist, Nola York, sits at the side of the stage to play their accompaniments.

Robert McSain and Linda Polan are the two intruders, dictatorial but good-hearted old numbers. Hazel Clyde is the girl the young men fight over in the persons of Geoffrey Beavers and Michael Richmond; Roger Eriksen is her father. Merry thought's willful wife is Prunella Scales, and his younger son Michael is Peter Markham, who undertakes all the boys' roles in the play with wide-eyed readiness. They hit just the right note of broad comedy without condescension. I recommend it

for these: June 11-June 21
**THE GROSVENOR HOUSE
ANTIQUES FAIR**
and '100 years of the Arts' (1830-1930)

In 410 AD the Romans finally withdrew from Britain—and left behind a cultural influence reflected in so many antiques. The finest collection of pre 1830 antiques on the world market is in the Great Room, Grosvenor House, Park Lane, London. Telephone: 01-499 6363. 11 June: 5.00 p.m.-7.30 p.m., then daily till 21 June: 11.00 a.m.-7.30 p.m. All items except those on loan are for sale. Admission £1.

Don't miss this date
410AD

or these: June 11-June 21

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Liverpool Everyman

Under New Management

by MICHAEL COVENY

Last week in the House of Commons, during a debate on the future of the nationalised industries, one Tory MP congratulated another on seeming to belong to "that growing band of Tory red-shirts who will be fighting for the thesis of worker participation as the alternative to the declining and somewhat discredited forms of managerial capitalism which are espoused by the CBI". At the end of C. G. Bond's spirited play about the famous factory occupation at Fisher-Bendix in Kirkby, the days of the old capitalist managers are declared to be "over".

And as far as that particular factory is concerned, so much is true. The sins of 18 years of bad management are never concealed in the play, but Mr. Bond has concentrated on distilling the essential character of place of work which was nearly destroyed.

It is written subsequent to extensive interviews with the stewards and representatives of the design workers at Barkworth

and the KMB en masse with notice for the factory (as it is now known). A detailed reconstruction of all forces of 1963 has been taken over (in 1968) as a subsidiary of BMC.

The second half flag a little and threatens to get bogged down in an over-extended showbiz parody of the buying and selling game among private companies. But the aims of the occupation are clearly delineated, and they survive yet more bureaucratic inefficiency almost, we learn that between 1961 and 1971 the factory had 12 general managers. "If one arrived who had any ability, he was not allowed to use it," declares one of the lads, pained at the thought of time and money wasted on the stagnation of sinks, gas fires and cookers.

He and his colleagues could obviously have been forgiven for wondering whether, perhaps, the place was operating as a tax dodge. These emotions of anger and insecurity are forcefully conveyed by the company as they close ranks and, in a strikingly staged sequence, chug energetically over the scaffolded

houses to quit. The 2,000 work

and represent

Nottingham Playhouse

Walking Like Geoffrey

by MICHAEL COVENY

"A Tale of Old Gotham" is the sub-title for the Playhouse's contribution to the city's annual Festival which opened on Saturday. "Even England looks all right when the sun shines."

There are only a few paintings in this exhibition so it is not possible to look too closely into the differing degrees of finish Feininger considered necessary in the two media. However there are enough drawings, both works that are ends in themselves and studies for paintings, to give a good idea of his strengths. The best are undoubtedly the most fancy-free designs, in particular a drawing of two cargo boats chugging over a strange, curved northern sea. There is a lightness of touch involved. His paintings and drawings appear mapped out, metaculously refined, with every line scratched in as though architectural schemes.

Lyonel Feininger is at Achim Moeller until July 18.

Creamwell conjures before us the unfortunate fates of various Joderell, the play is strongest in respect of both stunts and words.

Mr. Campbell demands very difficult things of his stage directors. In *The Great Caper* it was required that the search party demolish a wall. Here, at the end of Act 1, Sir Eustace Doderell (Roger Sloman) attempts to dodge the curse by "pranging" his soul to another universe—first by juxtaposing excitement at his servants in underwear with the sexless solidity of his wife (Pat Keen), and then by deducing his existence as the element of another person's dream and attempting to destroy the fabric of that dream with excessive actual violence. Thus the curtain falls on a scene of domestic carnage and Sir Eustace stabbing himself 30 times. Such amazing events are hard to represent. The director, Richard Eyre does, on the whole pretty well, although he is far more successful at coping with Mr. Campbell's writing. Puns and good turns of phrase are rare enough in any comedy to deserve to have both in the one show is a rare treat. Shapeless and biggy, like tweed trousers and Tristram Shandy, Mr. Campbell and friends have provided perfect, if rather gloriously impudent, holiday entertainment.

Gotham is a Nottinghamshire village whose inhabitants are alleged, in medieval times, to have disported themselves in a mad, or "looney" fashion in order to avoid paying their taxes. Their model is the village idiot, Geoffrey, played with spectacular blabbering ferocity by Sylvester McCoy as an amalgam of Harpo Marx and Max Wall. But this is to jump

before the facts.

The show has the vulgarity of McGill cartoons, the latent (and often not so latent) cheerful obscenity of *The Clogies*, and the vitality and unpredictability to be expected from both Mr. Eyre's company and Mr. Campbell's writing. Puns and good lines abound, a nice one coming from Creamwell himself who, on recounting a boating accident with a precocious maid, remembers that he was anxious to have his boat pulled ashore. "Geoffrey is blessed with not only wet trousers before attracting

Sadler's Wells Theatre

Moves/Eclipse/Juice

by CLEMENT CRISP

Nederlands Dans Theater's had discovered the possibilities second programme last week of an echo-chamber, and then made me suspect that the company degenerates into a remorseless pain is currently toying with the and deafening electronic din. Death wish. A kamikaze dive into pretension and fatuity, it follows a sure-footed account of Jerome Robbins' *Moves*, that ballet in and Juan Antonio (a guest from France) and a patchwork of cloth. Meanwhile, attendant sprites, made from a patchwork of cloth, accompanied to dance.

Robbins' theme is that bodies may be seen to respond to each other without music's promptings, and the NDT dancers are alert in their relationships, clean and handsome in their understanding of timing. The quirks and "asides" about movement

with which Robbins enlivens his choreographic structure are nicely played—one boy dropping suddenly in the "Dance for Men" at a Gathering for American college students. Athletic grapplings, jumps and switchings for its three girls and four men were the crux of things, but the piece was made worth-while by the magnificence of Jon Benoit. With his total abandonment to the dance, Mr. Benoit is a tremendous artist. He launches himself into the choreography as if greedy for movement, and he is the justification for an otherwise insipid piece. Could this, I kept asking myself throughout the evening, be the Burri Alcantara that starts by Neerlands Dans Theater? sounding as if Tibetan monks know and love?

Elizabeth Hall

Jean Fonda

by DOMINIC GILLE

Chopin's F sharp minor inner life. A considerable portion of the finale was improvised, and not convincingly.

I did not stay to hear *Familles* or Kabalevsky's third sonata—for this was one of those very rare occasions on which the artiste's first half is so unmistakably crystal-clear in its message that one is fully persuaded to take the second half on trust.

Stratford's royal gala

Tickets are still available for the Royal Gala Performance of *Henry V* at Stratford-upon-Avon on June 27 to raise funds for the preservation of the theatre. The more expensive tickets include admittance to a Garden Party in the afternoon which the Queen will attend. Tickets are also available for an extraordinary plasticine creation, cloudy, without shape or direction, variety or Sunday, June 28, in the theatre.

TWA. FIRST OF THE DAY TO THE USA.

NEW YORK:

747 departs 10.00, arrives 12.35.

747 departs 12.00, arrives 14.35.

707 departs 17.00, arrives 19.55.

The 12.00 flight continues on as 2707 to Cleveland, St. Louis, Kansas City.

BOSTON:

747 departs 11.15, arrives 13.20.

Continues on as an L1011

to Los Angeles (arr. 18.37).

PHILADELPHIA:

707 departs 11.30, arrives 14.35.

The only non-stop flight of the day.

Same plane continues on to Pittsburgh (arr. 17.21).

CHICAGO:

747 departs 12.30, arrives 15.00.

Same plane continues on

to San Francisco (arr. 19.58).

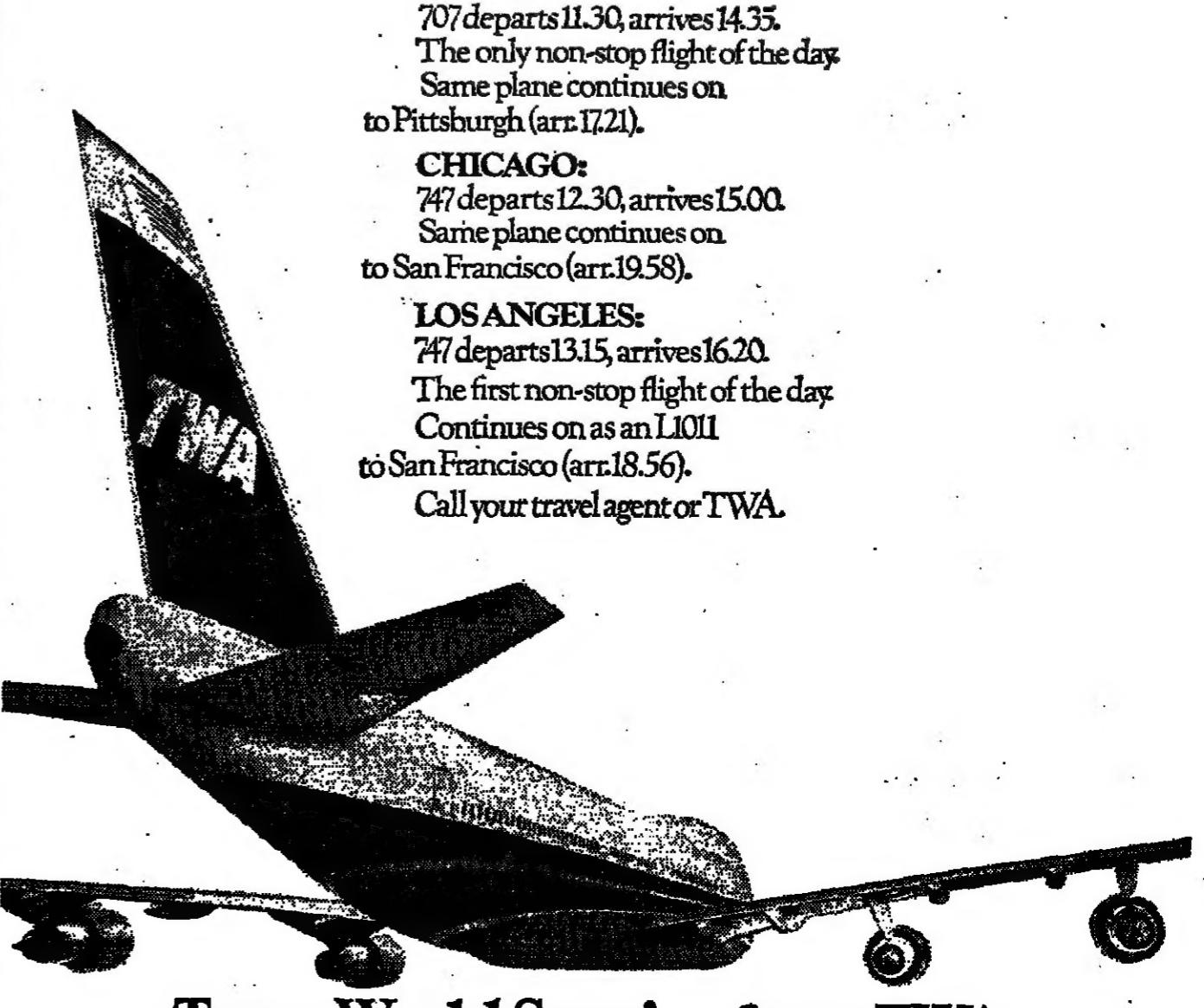
LOS ANGELES:

747 departs 13.15, arrives 16.20.

The first non-stop flight of the day.

Continues on as an L1011 to San Francisco (arr. 18.56).

Call your travel agent or TWA.



TransWorld Service from TWA.

HOME NEWS

MP backs move to suppress Crossman diaries

FINANCIAL TIMES REPORTER

MR. TAM DALYELL, Labour MP for West Lothian, who was a friend of the late Mr. Richard Crossman, said yesterday: "I think that publication might create a tremendous amount of controversy on top of what we have already had."

"I have read a great deal of the book. I think it is a great book and should be published, certainly within this decade, but not immediately."

Mr. Dalyell was a former Parliamentary Private Secretary to Mr. Crossman and for 11 years they shared a house in London. The diaries have already been serialised partly in the Sunday Times.

A spokesman at the office of Attorney General Mr. Silkin confirmed that Mr. Silkin would seek an injunction in the High Court to prevent publication of the first volume of the Crossman diaries on the Labour Government, covering 1964-65.

Mr. Dalyell said that Mr. Crossman's book was different from the memoirs of other leading politicians including Churchill, Macmillan and Mr. Wilson. "In general, the memoirs they did not go into anything like the detail,

especially about people, that the other memoirs do. The difficulty is a real one especially after the publication of extracts in the Sunday Times."

The spokesman said: "This is the Attorney General's decision. He has consulted his legal advisers but had not consulted the Prime Minister or other ministers."

Mr. Crossman's literary executors, his widow Mrs. Anne Crossman, Mr. Michael Foot, Employment Secretary, and the publisher Mr. Graham Greene are to oppose the attempted ban. It is expected that the case, because of its constitutional implications, could eventually go to the House of Lords.

The special bitter has been

launched by the company re-

launched its special bitter cam-

paign with a slogan approved by ASA but criticised by CAMRA, featured in a critical Sunday Times article, and the butt of a joke item on the Nationwide BBC television programme.

Watney said at the weekend: "We never disclose the gravity of our beers. You will have to wait for other people to do their best."

The special bitter has been at

the centre of a row between

Watney and the Campaign for Real Ale. Watney discontinued its advertising campaign for its beers which account for 40 per cent of its draught beer output.

The beers are special bitter, Truman special, Ben Truman export draught, and Norwich special, which is sold in East Anglia.

The prices will not go up, though the extra duty cost to the nation may be as much as £500,000 a year.

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Watney decided to scrap the new campaign at a cost, CAMRA claims, of about £200,000.

It says that increasing its beer strengths has nothing to do with that episode.

Businessman's Diary

U.K. TRADE FAIRS AND EXHIBITIONS

Date	Title	Venue
Current	Grosvenor House Antiques Fair (cl. June 21)	Grosvenor House, W.1
To-day	Provincial Booksellers' Monthly Fair (cl. June 17)	Kensington Hotel, W.C.1
June 17-20	Royal Highland Show	Edinburgh
June 17-20	Microforum International Exhibition	West Centre Hotel, W.8
June 22-26	Contract Furnishing and Interior Design	Olympia
June 22-27	Intl. Film Technology Exhibition and Conference	Royal Lancaster Hotel, W.2
June 22-27	Euro. Assn. of Radiology Tech. Exhib. and Conf.	Edinburgh
June 25-26	Royal Norfolk Agricultural Show	Norwich
June 30-July 3	Royal Agricultural Show	Kensington, Warwick
July 1-3	Electronics Exhibition	Leeds University
July 8-9	Business '75 Exhibition	Middlesbrough
July 8-10	Great Yorkshire Agricultural Show	Harcroft
July 8-11	Intl. Audio-Visual Aids Exhib. and Conf.	Olympia
July 14-16	North-West '75 Home and Leisure Exhib.	Blackpool
July 18-20	Brighton Antiques Fair	Corn Exchange
July 20-21	Fish Catering Services Exhibition	Regent Centre Hotel, W.1

OVERSEAS TRADE FAIRS AND EXHIBITIONS

Current	Technical Goods Fair (cl. June 17)	Porto
Current	International Fair (cl. June 22)	Lisbon
To-day	Laboratory Equip. and Medical Aids (cl. June 23)	Zagreb
June 17-20	International Knitwear Exhibition	Milan
June 17-21	Brit Export Centre: Camping and Leisure Exhib.	Tokyo
June 17-21	International Education Exhibition	Melbourne
June 17-28	European Machine Tool Exhibition	Paris
June 18-23	International Art Fair	Basis
June 19-22	International Pharmacists' Exhibition	Chicago
June 20-24	Food Industry Trade Show	Tehran
June 20-25	Building Materials and Pre-Fabrication Fair	Bruno
June 23-27	International Packaging Exhibition	Munich
June 24-27	Opto-Electronic Systems Exhibition	Dublin
June 24-28	Irish Cleaning and Maintenance Exhibition	Naples
June 24-July 6	Housing and Public Works Exhibition	Dar es Salaam
July 1-8	International Saba Saba Trade Fair	Ndola
July 3	Zarola Trade Fair	Stuttgart
July 4-5	Glazing and Window Frame Exhibition	Sao Paulo
July 4-13	Food and Agricultural Machinery Exhibition	Moscow
July 8-17	Intl. Fire Engineering Exhibition	Johannesburg
July 14-18	Medical Exhibition	London
July 14-18	National Householders Exhibition	Singapore

BUSINESS AND MANAGEMENT CONFERENCES

Current	Lond. Grad. Bus. Sch. Corporate Fin. (cl. June 23)	Sussex Place, N.W.1
Current	Ashridge Man. Coll.: Management Dev. (cl. June 27)	Berkhamsted, Herts.
To-day	PE Cons.: Leadership in Management (cl. June 20)	Egham, Surrey
June 17	Euro. Study Conf.: Employment Protection Bill	Manchester
June 17	International: Insider: Euromoney Lending	London Press Centre
June 18-20	Direct Mail Assn.: Annual Conference	Amsterdam
June 19	Henley Centre: Middle East Economic Prospects	Carlton Tower, S.W.1
June 19-20	Financial Times, Straits Times, British Airways	Singapore
June 19-20	Cathay Pacific Airways and Fairplay International Shipping Weekly: South East Asia Shipping	
June 19-20	Pulmer Res. Inst.: RPD Planning and Design	Slough, Bucks.
June 23-28	Bradford Univ.: Marketing and Logistics Planning	Heaton Mount, Bradford
June 23-July 11	Urick Mkt.: Computer Systems Analysis No. 39	Slough, Bucks.
June 24	Guardian Bus. Serv.: Understanding Com. Contracts	Hyde Park Hotel, S.W.1
June 24-26	FT Man. Serv.: Int. Auditing and Man. Systems	London
June 25	I.P.C. Bus. & Ind. Trng.: Meat Alternative	Cafe Royal, W.1
June 25	Inst. of Marketing: Management by Commitment	London Tara Hotel, W.8
June 25	N.I. Dept. Com.: Steel Fabrication for Offshore Oil	Dunmurry, N. Ireland
June 25	Chatham House: The International Credit War	R.I.A., 10, St. James's Sq., SW.1
June 25-26	Marylebone Press: Recycling and Waste Exchange	Palace Hotel, Buxton
June 26	Sino-British Trade Council: Chinese Oil	Excelsior Hotel, Glasgow
June 30-July 1	Computer Power: Advanced Filelab	Cannock, Staffs.
June 30-July 1	Strategic Man.: Creativity and Innovation	London Bus. School, N.W.1
June 30-July 2	South Wales Inst. Eng.: Materials Conservation	Dunchurch, near Rugby
June 30-July 3	Dunchurch College: Know about Offshore Oil	Aberdeen
June 30-July 3	NE Scot. D.A.: Aberdeen—Europe's Offshore Capital	Imperial Hotel, W.C.1
July 2	Assn. of Cert. Agents: Current Taxation	Barrington House, E.C.2
July 3	Inbucor/A.I.C.: Job Design at Work	Intercontinental Hotel, W.1
July 3	South African Investment Seminar	London Hilton, W.1
July 3	Staniland Hall: Outlook for Leisure to 1980	Goldsmiths' College, S.E.14
July 3	BACIE: Television in Training	Financial Times Cinema
July 3	Inbucor/A.I.C.: Relocation & Dislocation	Royal Garden Hotel, W.8
July 3	Inst. Directors: Cap. Trans. Tax and Small Bus.	Cafe Royal, W.1
July 10	New Law Journal: Revenue Law	Manchester University
July 11-13	IEEE: History of Electrical Engineering	Cafe Royal, W.1
July 14	CBMPE: Electronics in Offshore Operations	Grand Hotel, Eastbourne
July 14-18	Louis A. Allen & Ass.: Professional Management	The Gloucester, S.W.7
July 15	North Paul & Ass.: Transactional Analysis	

Motor-cycle men to meet Varley

By Peter Cartwright

MR. ERIC VARLEY, who has taken over from Mr. Wedgwood Benn as Industry Minister, has rescheduled the meeting over the future of the motorcycle industry—including the Meriden Cooperative at Coventry—to next Wednesday.

Mr. Dennis Poore, Norton V.L. Ltd. Triumph chairman and other members of the Board, the Meriden Motor Cycle Cooperative—each of which was set up with nearly £5m of Government aid—and national officers of the Confederation of Shipbuilding and Engineering Unions were to have met Mr. Wedgwood Benn on the day on which the Prime Minister's Cabinet changes became effective.

The confederation has been pressing the Government to take further measures to bring the industry into public ownership, while Mr. Poore has argued for the investment of another £25m to increase the model range and profitability of a three-factory

plant. In January-April 1974, 55,421 tonnes were imported to meet the shortfall in U.K. production, this year the total has come to only 45,178 tonnes—a drop of 4% per cent on last year.

The fall in extinctions has been somewhat less severe, with April's total coming to 14,482 tonnes against 16,788 tonnes in April 1974.

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LABOUR NEWS

Electricity unions reject TUC participation plans

BY ROY ROGERS, LABOUR CORRESPONDENT

TUC PROPOSALS for worker participation in the electricity supply industry, submitted to the Pilkington Committee of Inquiry are likely to be disowned by several of the industry's main unions which have already presented contradictory evidence.

The TUC evidence, published to-day, calls for trade union involvement in decision-making at all levels, including 50 per cent representation on a supervisory Board designed to control the proposed England and Wales Electricity Corporation.

This goes against the views of several of the industry's main unions as expressed in their submission to the committee where they said "several major unions would not support this direct involvement of trade unions in the management function."

This issue was put more clearly yesterday by Mr. John Lyons, general secretary of the Electrical Power Engineers Association, who said he was "concerned" at the TUC proposals for worker participation.

"Not only is this an ill thought-out proposal, but the TUC has not even asked the

Less contentious items in the TUC evidence include ending the

WEEK-END POLITICAL SPEECHES

'Support contract' call by Ministers

BY JOHN BOURNE, LOBBY EDITOR

LABOUR LEADERS concentrated their week-end comments on the urgency of tightening the guidelines of the social contract.

Mr. Denis Healey, Chancellor of the Exchequer, warned the Commons, and that most other countries had failed to do so without mass unemployment.

Mr. Foot said he did not dispute that trade unions owed an obligation to their membership, but they also owed an obligation to the Labour Government if it allowed a settlement for the railmen far above the existing guidelines or the arbitration figure of 27.5 per cent.

A national rail strike would be disastrous, but it would be even more disastrous if the Government was seen to destroy its credibility.

Speaking on BBC Radio Leeds, Mr. Healey stressed the importance of getting a "firm guarantee" from the unions that wage demands in the next round of negotiations would be in keeping with a cut by half in the rate of inflation.

He said he was most encouraged by the TUC's discussions on a plan to achieve this.

In Cardiff, Mr. Michael Foot, the Employment Secretary, said the problems of inflation would not be solved by "battles" between the Government and trade unions. The key to success was to "build a link" between the industrial movement and the political movement that could never be broken.

"You cannot solve the problems of inflation by fighting a battle between the Government and the trade unions. The previous Tory Government tried that and it ended in the farce of the three-day week and the accompanying setback to British industry," he told the South Wales miners' annual gala.

"The only way in which you can solve inflation is with patience, courage and determination, seeking to ensure that you do retain full co-operation between the Government and the trade union movement of which we are this country." It could not be part.

Heath still running for leadership

BY JOHN BOURNE, LOBBY EDITOR

MRS. MARGARET THATCHER's mistake in changing him for other senior Tories increased their attacks on the Government's economic policies during the weekend after the lull of the referendum campaign, but Mr. Edward Heath, her predecessor as party leader, also indicated in an article in the Sunday Express that he still regards himself as a possible leader of the party.

Besides discreetly reminding people of his triumphs at referendum campaign meetings, he recalled his question as Prime Minister in the February, 1974, election—do you want to be governed by the Government or the trade unions?

He commented: "Inevitably there are many people who believe the present economic slide could have been avoided if only people had come out in large numbers that February to back the measures that needed to be taken."

After Mrs. Thatcher had left the Welsh Conservative conference at Aberystwyth on Saturday, the conference discussed a motion criticising the failure of the Conservative leadership of providing new and aggressive policies and pointing out that there had been little sign of these policies on which Mrs. Thatcher had been elected.

Mr. Tim Mason, for the Federation of Conservative Students, said that when Mrs. Thatcher was elected there was a vague idea that she represented a new sort of positive aggressive Conservatism and that she was going to change the direction of the party and the country.

"That idea is still vague," he said. "By the middle of April no leadership had come from Mrs. Thatcher."

While Mrs. Thatcher was at the conference, representatives Healey at £9m—an unprecedented sum, an unworkable figure. "The so-called borrowing requirement" is likely to be £12m. "The so-called borrowing requirement" largely an euphemism for budget deficit.

Students for Edward Heath" They said: "Edward Heath—man of principle" and the likely figure by more than contended that the extent of half again."

NUM censure threat for pro-Market MPs.

BY OUR LABOUR STAFF

FIVE YORKSHIRE MPs sponsored by the National Union of Mineworkers now face up to the heart of Mr. Mason's constituency. This demands the withdrawal of sponsorship from Yorkshire area NUM council Mr. Mason and the other four pro-Market MPs—Mr. Alec Woodall (Hemsworth), Mr. Alf Roberts (Normanton), Mr. Edwin Wainwright (Dearne Valley) and Mr. Joe Harper (Pontefract).

The area's other sponsored MP, Mr. Dick Kelley (Don Valley), was a firm supporter of the union's campaign against Common Market membership.

Mr. Arthur Scargill, the union's area president and a leading campaigner for a No vote in the referendum now has to decide whether to allow the highly critical resolutions to be debated.

In the past he has usually persuaded delegates to avoid a direct confrontation with their sponsored MPs. But this time he is expected to allow at least one motion to be fully debated.

If a censure motion is carried, the main threat is a potential withdrawal of financial support for the offending members, and even the Labour Party at the next election.

The TUC also thinks the present system of consumer consultation in the industry is inadequate. It suggests that a National Electricity Consumers Council should be set up to give the interests of consumers an effective hearing.

Across the Thames in Lambeth workers in the City of Westminster earn less than £30 a week.

"Average earnings for men in Britain's low-paid workers are employed in industry for which the Government is directly or indirectly responsible, either as one in five manual men earned less than £30 a week," states the report, from the Low Pay Unit.

'Companies frustrated IR Act's closed shop provisions'

BY JOHN ELLIOTT, LABOUR EDITOR

A GENERAL defence of closed effectively with unions to draw trade unionism as a serious sting from the law's attack infringement of individual rights on closed shops. Nor were they liberty," says the book. On the other hand, the advantage of procedures or prevent costly closed shops to management is that they can avoid inter-union disputes," say the authors.

"Managers were aware that competition for membership legally enforceable agreements while also giving unions the power to end the closed shop to their members." The closed shop may be seen as an expression of the employment relationship," suggests the book.

The main reason that the IR Act failed to stop closed shops operating was that "employers defended it almost as tenaciously as did workers." By using "persuasion, the recruitment interview, induction, and a variety of techniques managers set out to frustrate the intention of the law," claim the authors.

Their success must raise doubts about the ability of the law to protect individual rights in the field of employment unless these rights are seen to command wide support or serve the interests of some parties to collective bargaining. Our evidence has clear implications for the employment rights contained in race relations legislation and laws to secure equal rights for women."

These arguments form part of a book called "Industrial Relations and the Limits of the Law," written at Warwick University which assesses the limited effects of the Conservative Government's 1971 Act.

The authors claim that employers in general did not like the idea of the threat of law, involving third parties having a say in their affairs, being used between 1968 and 1971.

"Managers were specially reluctant to see bargaining arrangements disturbed by the new individual rights, and combined

Warwick Studies in Industrial Relations, Industrial Relations and the Limits of the Law—the industrial effects of the IR Act 1971. By Brian Weeks, Michael Mellish, Linda Dickens, John Lloyd, Basil Blackwell Oxford. £7.50 hardback. £3.95 paperback.



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OVERSEAS NEWS

Greece may try junta leaders next month

By Our Own Correspondent

ATHENS, June 15.
THE TRIAL of the leaders of the military junta which abolished democratic rule in Greece for seven years will be held in Athens before the summer is out, Minister of Justice Constantine Stanatatos said.

The trial will satisfy a public outcry for the punishment of those who ruled the country by edict. An authoritative source said that the trial, described here as the "Nuremberg" of Greece, will be held late in July or early in August, provided that by the end of this month the Supreme Court rejects the appeals by the defendants against the legality of their prosecution.

Twenty-one leading members of the junta have been remanded on high treason charges which entail a possible death penalty. They include Mr. George Papadopoulos, the former artillery colonel who masterminded the April, 1967, army coup and installed himself President in June, 1973, and retired General George Zolakis who served as Regent.

They also include retired Brigadier General Demetrios Ioannides, the chief of the military police who overthrew Papadopoulos in November, 1973, only to relinquish power to the politicians in the face of the Cyprus crisis in July.

The defendants have claimed in their appeals that the takeover was a revolution which created its own legal status.

Security for Italian polls

ROME, June 15.

GUARDED by 120,000 armed police and troops, Italians today voted in regional elections likely to pull the country further Left. The massive security was ordered to prevent repetition of campaign violence in which six people died and 200 were injured in clashes and bomb attacks in the past few weeks.

Railway stations, where 100 special trains brought home tens of thousands of Italian workers from surrounding countries to vote, were also under tight guard.

About 40m. are expected to

vote in the two-day elections for regional governments in 15 of Italy's 20 semi-autonomous regions. Governing bodies of 14 provinces and 6,345 municipalities are also being chosen.

Reuter

TEHRAN, June 15.

AFTER THREE months of detailed negotiations, Iran and Iraq have signed a "reconciliation" treaty settling all outstanding differences. The agreement, signed by the Foreign Ministers of Iraq and Iran in Baghdad over the weekend, now has to be ratified by the two Governments.

The treaty follows intensive work by committees and a series of ministerial meetings in the wake of the Algiers summit in March. At the Algiers oil summit, through the chief officers of the Algerian and the Shah of the Iraqi, leader, Saddam Hussein, and the two leaders decided to undertake a major initiative to settle differences.

Thus, within a sort time, Iran and Iraq have swung round from a situation of confrontation over the Kurdish issue to one of friendship. This new relationship was symbolised by the announcement over the weekend that the Shah had accepted an invitation to visit Baghdad.

Although for some weeks now the signing of such a treaty was a foregone conclusion, it will nevertheless have one important and immediate consequence.

Stabilising relations, even though the two have totally different political regimes, will bring a new equilibrium to the whole Gulf. More particularly, it is expected that this will add new momentum towards the creation of a Gulf security pact.

Mr. Rabin, in a TV interview immediately after to-day's talks at his hotel suite, said that both Israel and Egypt would have to shift from the positions they held last March if there were to be any chance of a new interim agreement.

The Prime Minister, who is due to hold another round of talks with Dr. Kissinger in New York to-day, defended Israel against charges of inflexibility for having turned down Egypt's terms during Dr. Kissinger's latest round of shuttle diplomacy.

Mr. Rabin said none of the dire predictions made at the time of Dr. Kissinger's last abortive round of negotiations had proved correct. The threat of war was even less now than it had been three months ago, the Suez Canal had been reopened—even in the absence of a further Israeli withdrawal—and the mandates of the UN peacekeeping forces in the Sinai and on the Golan Heights had been renewed.

In an interview released to-day, Dr. Kissinger said his as saying Egypt had to negotiate on three basic issues if a new agreement was to be reached. These were:

DURATION: "We want to know what is the minimal period that a new agreement will stand."

NON-BELLIGERENCY: "If the state of war is unchanged and Egypt claims all the rights of a belligerent power, we cannot give up our defence on the Mitla and Gidi passes in the Sinai."

Steps towards peace: "There

is no need for a new agreement to stand."

The new Prime Minister is Mr. Keijo Litamies, a senior civil servant in the Ministry of Labour.

FINN CABINET

By Lance Keyworth

HELSINKI, June 15.

President Urho Kekkonen has appointed a caretaker cabinet consisting mainly of civil servants until a new Parliamentary government can be formed after the general election on September 21-22. This was the expected outcome after Premier Kalevi Sorsa's four-party Left-Centre coalition Cabinet resigned just before midnight on June 12.

The new Prime Minister is Mr. Keijo Litamies, a senior civil servant in the Ministry of Labour.

REUTER

COMPANY NOTICES

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OVERSEAS STAFFS

U.S. bid for new nuclear controls

By PAUL LEWIS, U.S. EDITOR

WASHINGTON, June 15.

THE U.S. is now attempting to negotiate new safeguards on the sale of civilian nuclear plants with Britain and other nuclear exporting countries, in order to prevent third nations from building atomic weapons of their own.

In particular, the U.S. wants to ban or tightly control the sale of uranium enrichment and fuel reprocessing plants, which can provide the purchasing country with a source of fissile material suitable for use in nuclear weapons.

As part of this plan, it has suggested the construction of a series of regional plants around the world for the reprocessing of fuel from civilian reactors. These would be under international control and would keep a tight check on the plutonium and other fissile material produced in the operation. However, there is some doubt as to whether this scheme would be economically viable in the foreseeable future. An alternative approach which seems to be preferred by the British is for countries exporting nuclear reactors to undertake to do the fuel reprocessing themselves.

American concern about the spread of nuclear technology particularly in the developing world, has greatly increased since the Indian explosion last year. But it has been given new impetus by the latest German Government's decision to sell Brazil not only nuclear reactors, but also the enrichment and fuel processing plants as well.

Kennedys 'may have link' with CIA plots

WASHINGTON, June 15.

VICE-PRESIDENT Nelson Rockefeller suggested today that President Kennedy and his brother Robert might have been involved in assassination plots by the Central Intelligence Agency (CIA) against foreign leaders, but he said he had no conclusive evidence of this.

Mr. Rockefeller, who headed a high-level commission that made a five-month investigation of CIA activities, said in a television interview: "I think it's fair to say that no major undertakings by the CIA were done without either knowledge and/or approval of the White House."

He said that the published sections of his commission's report did not deal with alleged assassination plots because the commission investigators could not get enough information to justify

Don Juan rejects Franco's succession

MADRID, June 15.

THE PUBLIC rejection by Don Juan de Bourbon, head of the Spanish royal house, of the order of succession imposed by General Franco, caused surprise here to-day.

Don Juan put himself forward as the monarchist alternative of Spanish opposition groups to his son Prince Juan Carlos, who has been designated by General Franco as his heir and future king and who is generally considered more liberal than his son.

The challenge from Don Juan came at a dinner given in his honour by a group of Spanish dissidents in Lisbon last night. Initial reaction among moderate opposition politicians here was that Don Juan's position would only make Spain's transition to democracy more difficult. "A dynastic squabble is the last thing we want," one said.

Their feeling was that undoubling the order of succession, already accepted by the Spanish army, would only delay the advent of democracy, which the prince is expected to promote once he is in power.

Don Juan, known as the Count of Barcelona, met here with 70 Spanish Social Democrats, Christian Democrats and Monarchs to discuss the situation across the border. In a move that is bound to increase official resentment in Madrid of the tolerance shown by the new Portuguese regime.

Spain recently presented two formal protests to the Portuguese Foreign Ministry over the publicity given to anti-Franco news in the left-wing Press here and Madrid's recent promise of non-interference in Portuguese internal affairs was generally considered to have been made in exchange for a similar undertaking by Portugal.

Although Don Juan effectively set aside his son's immediate claim to the throne, he carefully avoided mentioning the prince by name. "For personal and entirely human reasons, I do not think it is necessary to be more explicit," he said.

Don Juan said that General Franco's plan of succession did not provide the democratic change for which the Spanish people longed. "I am not the head of any conspiracy. I am no one's rival. I do not want my person to become the subject of discord amongst Spaniards. I do not seek Numerous press reports have told of CIA involvement in plots against Cuban leader Fidel Castro, former Dominican Republic leader Rafael Trujillo and others.

Mr. Rockefeller was obviously referring to how the deaths of the Kennedy brothers made it more difficult to uncover evidence, although he did not mention them by name.

Numerous press reports have

told of CIA involvement in plots against Cuban leader Fidel Castro, former Dominican Republic leader Rafael Trujillo and others.

Reuter

Twenty dead in Rhodesia fighting

SALISBURY, June 15.

THE KILLING of 20 Africans in a clash between nationalist guerrillas and Rhodesian security forces remained a mystery to-day, with no official comment forthcoming from a government sources here. What has still to be explained is whether the dead Africans were

northeastern border war zone. The communiqué said that when the patrol went to investigate a gate, it came under fire from a terrorist group. In the ensuing fight 20 people were killed. No members of the army patrol were

surprised here to-day. The unofficial reports circulating in Salisbury said that the incident occurred at night. There had been considerable confusion after the guerrillas started firing and there was no reason to assume that all the deaths were the responsibility of the Rhodesian troops.

The guerrillas were believed to be members of the Zimbabwe African National (ZANU), the most militant group that all those who died were involved in the fight against White minority rule in Rhodesia.

The communiqué issued by the security forces said that an army patrol had gone to the rescue of a village headman who was being beaten up in the Reuter

Smith regime warns of 'austerity year'

BY TONY HAWKINS

SALISBURY, June 15.

RHODESIANS have been warned by Finance Minister John Wrathall to expect a period of austerity lasting until the second half of next year. In a weekend statement Senator Wrathall attributes this to the world recession, transport problems in Southern Africa and "various pressures" which have been a consequence of the political situation in Southern Africa.

The Minister said that it was "common knowledge" that foreign currency allocations for the first half of 1975 had been "dramatically reduced" compared with the second half of last year.

Rhodesia had been adversely affected by the oil crisis and subsequent recession in the Western world and prices for Rhodesian exports had been depressed. At the same time prices for finished goods from the industrialised world remained at high levels.

A substantial volume of Rhodesian exports which should have moved at a time when prices were high were delayed and only began to move after prices started to decline.

Mr. Wrathall said that as a result a "severe reduction in imports in 1975 had been necessary. The Minister warned that the lower level of foreign currency allocations for imports in the second half of this year and the priority that must be given to imports of vital goods will inevitably mean that a wide range of commodities to which we have become accustomed will either be in extremely short supply or no longer available once existing stocks are exhausted.

Mr. Wrathall says that austerity must be accepted as a necessary sacrifice to the national interest during the immediate critical period.

It was inevitable that there would be unemployment and underemployment in several sectors of the economy to a greater or lesser degree, Mr. Wrathall said, however, that he did not think that this situation would persist beyond the second half of 1976.

The Minister's statement is the bluntest warning yet to Rhodesia about the difficult economic situation it faces in 1975-76.

The Finance Minister's remarks come just as businessmen are expecting to hear their third quarter currency allocations for 1975. After the drastic cutbacks in the first half of the year, only moderate further reductions are being anticipated.

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Most Beautiful Musical
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JEAN SIMMONS returns in triumph.
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JULY DUCHY, ROBERT WILSON
"THE GAY LORD QUES"
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Directed by JOHN GIELGUD

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"Should be seen. What's up?
One of the best shows since
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"HOTEL ALBERGO DELLA VITTORIA"
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Directed by IAN MCKELLAN

ROYAL COURT, 730 1745. An even.
JOE ORTON FESTIVAL
"LAWRENCE OF ARABIA"
JILL BENNETT PHILIP STONE
"Non-stop Insanity," D. Mir.

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LASTASTA, 836 8556. Mon-Fri. 8.30.
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RON MOODIE, RON DANDY NICHOLS
THE WANDERERS. Directed by IAN MCKELLAN

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"BURSTING AT THE SEAMS" unperformed
theatrical extravaganza," E. Tel. "A definite
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"Miracle," Guardian, "Brilliant," S. Tel.

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ST. MARTIN'S, 836 1443. Evenings 8.00.
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"MUSICAL HIT OF THE SEASON"
VAL PRINCE, ROBIN BENTON IN
"THE BLACK MIKADO"

"TERRIFIC ENTERTAINMENT," S. End.
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CHICHESTER, 0243 86333. Tonight &
June 18, 19, at 7.30. June 21, 22 at
8.30. ENDS. "THE TROJAN WOMAN"
undressed. Overwhelmingly
exciting," S. Times. "Times" 17, 21.
"A real winner," Sunday Times.
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CINEMAS ARE CONTINUED
ON PAGE 18

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MEET THE PARENTS

THE MEATBALLS

THE MIGHTY BOOSH

THE NIGHT OF THE MUSICAL

THE NIGHT OF THE PISTOL

Bankruptcies among Japanese companies reached a record total last year. Dick Wilson explains why

Japan: a boom landed on the rocks

ONE MORNING last October clock maker, as well as Yamato president Yoshihiro Miyata of Woolen Textile and even Omi Yashica, the camera maker, Brotherhood, called his men's representatives Omi Brotherhood created a together and told them: stir because it had been endowed. "Yashica's life is like a candle Christian mission and light before a storm. If things go at the present pace, the company will go bankrupt on October 31."

This story is no longer an uncommon one in Japan, where last year's bankruptcy cases totalled 11,681, counting only cases where the liabilities exceeded Y10m. (\$33,000), with aggregate debts outstanding of \$5.5bn.

This was double the previous record established in 1968, and gives a measure of the severity of the recession which Japan has been experiencing, as well as of the rationalization into which Japanese business has been forced.

The list of bankruptcies exceeding \$10m. ran to 50, and the two companies at the top of the league owed more than \$200m. and \$100m. respectively.

The story of failures has continued into this year, the outstanding examples since January being Yasu Tsusho (a car parts trader), Hokuriku Machinery (textile machinery), Okuda (umbrellas), Yamazaki Teikokudo (drug manufacturers) and Marubishi Shokuhin (canned fruits).

Peak

It appears that the peak may have passed in April, when the figure reached 300 cases involving debts of \$370m., since this was lower not only than the previous month but also lower than the previous April.

The most vulnerable firms in this shake-down in Japanese business have been in construction and real estate, which between them account for 40 per cent of the total. The textile mills, followed by electrical machinery and general machinery, have also been badly.

One factor which is apparent in many of the recent bankruptcies is speculation in land, which had been encouraged by the ambitious and unsuccessful proposals by the previous administration of Prime Minister Kakuei Tanaka for the remodeling of the Japanese archipelago. During the 1970s the 916 cases of bankruptcy in real estate. Nippon Kaihatsu had by this overreached itself, and bought a lot of land during the 1971-72 land boom, but ultimately collapsed when they had to face the credit to have unwisely dabbled in squeeze which followed the oil land. This was true of Tokyo crisis at the end of 1973. Its Tokei Seizo, the watch and president sought help from the

Sanwa Bank, which pumped in \$3.8m. during the period March to June 1974.

Mountainous

But the Bank then discovered that a considerable amount of the company's land was actors in the crucial decision to declare bankruptcy or not. In the current wave of business

put a stop to much of the mountainous, and that a large number of its promissory notes

was in circulation and had to be redeemed. Nippon Kaihatsu account for about half the

was declared bankrupt in July total bad debts. During the 1965

work which it had made possible. But good motives did not excuse bad management.

Promising

Even three of the promising small firms which had been helped by the Small Business Investments Company failed, casting a slight cloud on the methods of Japanese management. But at least it can be said that last year saw only four bankruptcies of companies listed on one of the Japanese Stock Exchanges.

These were Nippon Netsugaku,

Yamato Woollen, Tokyo Tokei

and Sennsei Seisakusho.

Almost all of these firms had

gone through the progressions

of collapse, beginning with the laying-off of labour, the cutting

of salaries, the advancement of

retirement, and other devices

to cushion the crisis... With a

traditional concern for labour

relationships and lifetime em-

ployment, some firms in Japan

have made temporary layoffs of

labour on the basis of paying

anything between 60 and 95 per

cent of full wages and retain-

ing the contract intact against

a hoped-for early resumption of

work.

But in the end all too many

enterprises have had to close

down. It is interesting to see

on what basis some manage to

survive and others do not. The

Government and the Industrial

Bank of Japan would not allow

Chiso to go bankrupt, because

if it had done so the payment

of compensation to the victims

of the dreaded Minamata pollu-

tion disease would have been

suspended and there would

have been a political back-

lash. In most cases it is the

creditors, particularly the

banks, who decide which enter-

prise is to be bailed out and

which is to be left to die.

The Sanwa Bank saved

Okuraya K.K. last year, but

abandoned Nippon Kaihatsu.

Both were real estate firms, and

both could have been among the

916 cases of bankruptcy in real

estate. Nippon Kaihatsu had

by this overreached itself, and

bought a lot of land during

the 1971-72 land boom, but

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Tokei Seizo, the watch and pres-

ident sought help from the

Ratio

But the other creditors are also important. These are very often the trading houses or shosha—Mitsubishi, Sumitomo, C. Itoh and the rest. Last year the ratio of bad debts in the shosha's lending usually ranged between 0.02 per cent and 0.07 per cent. Only

Toyo Menka departed from this range, with the astonishingly high ratio of 0.5 per cent, or ten times bigger than the others.

This was because of the single bankruptcy of Sakamoto Spinning with liabilities of \$32m.

A similar selectivity has applied in the textile industry

where the Tokai Bank has had

the deciding voice, at least in the Nagoya region. The Tokai

Bank has a "Textile Company and Sakamoto Spinning. Ten

Diagnosis Team" which had years ago Sanyo Special

been very active in 1970 during the textile recession, when the textile mills, followed by electrical machinery, have also been

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Tokei Seizo, the watch and pres-

ident sought help from the

Sanwa Bank was called in.

In this case the land was

developable, and besides that

Okuraya was the largest real

estate company under the Sanwa Bank aegis, with mutual

links going back for at least

five years. In these circumstances the bank sent in its own

adviser to replace the founder-

president of Okuraya to guide it

back to recovery.

Selectivity

A similar selectivity has

applied in the textile industry

with liabilities of \$32m.

The shosha have become more

cautious of late, except perhaps

for the example of Toyo Menka

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The Executive's World : The Office

EDITED BY JAMES ENSOR

Lethargy in energy saving

BY JOHN TRAFFORD

IT IS NOW twenty months since the energy crisis hit the Western World yet there is still little sign of the British Government taking effective action to cut down the nation's fuel consumption, part of which goes to heating, ventilating and lighting offices.

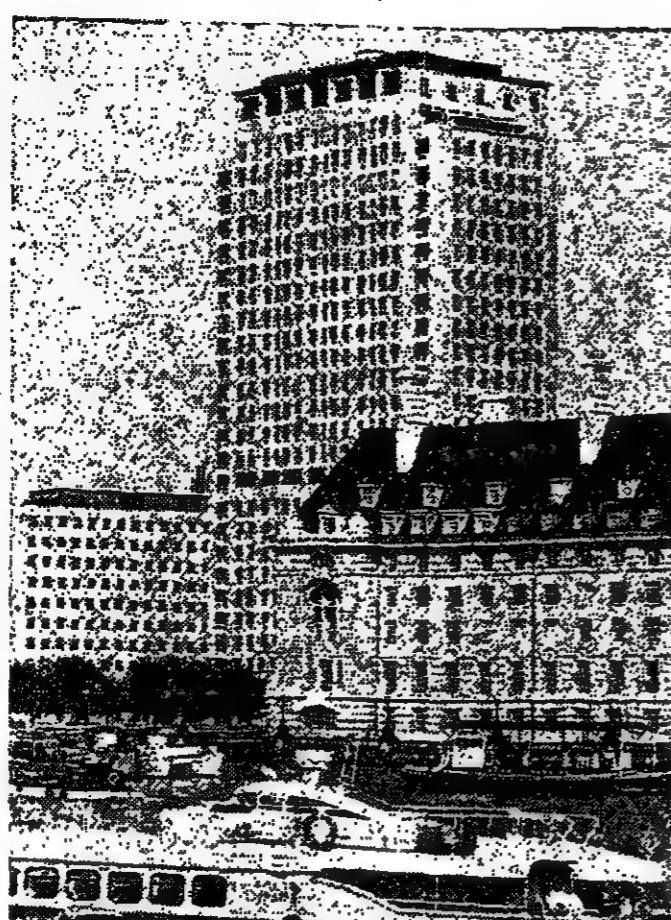
Britain is not just slow to react. It also starts its energy-saving campaign well behind the more advanced countries of Western Europe. At present the U.K. consumes nearly half the energy of the six original EEC countries whose population is 3½ times greater—a shocking performance born of years of cheap energy supplies and a hesitation to alter the building designs and building methods of the past.

The manager, faced with trying to hold down the rise in office overheads, can be excused for thinking that he has seen precious little reason to cut down his energy consumption other than the steep rise in energy prices themselves.

Most of the progress to date has been by individual companies which have not waited for a lead from Whitehall but have invested senior executive time in their own cost-cutting programme. The best publicised to date have been the efforts of Marks and Spencer. The company cut its energy consumption by 15 per cent in 1974, a saving of £500,000. It started an in-company campaign with "Switch It Off" stickers and other means to make employees alive to the importance of saving energy; it re-examined heating and lighting levels in its stores; and it set up an Energy Conservation Team in every store and at head office with the responsibility of maintaining, and if possible increasing, the initial savings.

Other companies, among them Shell at Shell Centre in London, have made inroads into their office energy consumption. Some believe that it is best for each company to work out its own solution to the challenge of energy conservation. However attractive such sentiments may appear, they are clearly not shared by the Government or many other people whose job is directly affected by inefficient energy use.

So far, apart from a slim publicity campaign on energy saving launched in January and another which began just eight days ago, the Government has only taken two measures which could have a direct bearing on energy conservation—apart from the policy of allowing energy prices to rise.



Shell has made inroads into energy consumption at Shell Centre

One was the requirement to up under the chairmanship of Mr. Arthur Palmer (Labour, Bristol North East) to examine the use and conservation of energy.

With so much study and so little Government action to date, the professional involved in office design and office operations has some cause for feeling rather frustrated. That is certainly the feeling of Mr. Donald Jones, partner in property agents Weatherall Green and Smith and chairman of the Building Surveyors Divisional Council of the Royal Institution of Chartered Surveyors. He believes that regulation is probably the best way to get energy conservation in new buildings but is worried lest the Government thinks that this will make much of a dent on the nation's energy consumption.

For new buildings, tougher regulations are an obvious "must" because otherwise the developer will continue his traditional practice of skimping on energy-saving devices—more efficient lighting, re-use of warm air, double glazing, better wall and roof insulation—when building speculative offices and factories. The developer builds to the minimum acceptable standards," says Mr. Jones, "because he is not the one who

pays the electricity bill. Furthermore, he knows he cannot recover the cost of an additional energy-saving outlay with a sufficient increase in rent."

Here harsher regulations could have a useful impact but the same could not be said of existing buildings. Mr. Jones points out that there are just not the district surveyors and building inspectors around to make a thorough job of enforcement.

For existing buildings he would like to see the Government offering a series of financial carrots aimed at helping the company which invests in energy-saving equipment. His proposals include grants, tax allowances, subsidies on insulation materials, and an adjustment to the rating system so that energy-saving improvements do not increase the rateable value of the premises.

The first three suggestions could be applied either to developers or to occupiers depending on who did the work. The second and fourth are perhaps particularly apt. Mr. Jones points out that a company can charge the whole of its energy bill against tax (as part of its regular running expenses) but has to treat the installation of insulation as a capital item to be depreciated over a period of years. With local government expenditure nearly out of control, anything which shielded the office employer from higher rateable values would be very well received.

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down office employment to "thinkers" only. Points to the connection between OL and egalitarianism—but believes this mellow once a building is occupied. Considers the stimulus OL has given to design, particularly furniture design. Believes we have come to the end of "simple landscaping" and to the beginning of a more complex period in office design."

THREE OLDER OFFICE BUILDINGS

C. Cave in *The Architects' Journal* (UK), 19 Mar. 75: p. 627 (8 pages, illus., diagrs.)

An assessment of three older office buildings: the Lever Brothers building, Port Sunlight (1895); the Norwich Union's Surrey House (1906), and Imperial Chemical House (1929)—the common denominator being continuous and continuing effective use of office space, due to the initial design of the shell which permits a variety of space utilisation approaches.

CATERING EQUIPMENT

A. Collins in *RIBA Journal* (UK), Feb. 75: 41 (51 pages, illus., table)

A two-part article, the first describing equipment for the reception, storage, preparation and serving of food, and for the cleaning of dishes and utensils, the second looking at selection criteria.

THE SOUTH WESTERN ELECTRICITY BOARD OFFICES

J. Worthington in *The Architects' Journal* (UK), 12 Mar. 75: p. 555 (9 pages, illus., charts, diagrs., tables)

Well-written and carefully researched, this is an assessment of one of the U.K.'s pioneer office buildings, now occupied for 31 years. There's much that's out of the ordinary about this building: it was conceived when the chairman came back from the U.S. where he had seen the principle of heat recovery in action ("integrated environmental design" started here). Continental office landscaping was adopted but with a difference—no standards, no compulsion, leave it to the staff. How it worked out, what happened (including sabotage, though the word isn't used), satisfaction and grumbles now, even the fact that management now feel they themselves should have opted for the open floor.

BURGOLANDSCHAFT REVISITED

F. Dury + C. Cave in *The Architects' Journal* (UK), 26 Mar. 75: p. 666 (10 pages, illus., diagrs., table)

An appraisal of the impact the landscaping concept has had on attitudes to office environment. In retrospect, sees the pioneers' emphasis on the communications aspect as an over-simplification, and is (now) unhappy with the "bigger-the-better" approach; seems to share the fear that more spaces may become redundant when automation scales Services.

A PERSONNEL EVALUATION TECHNIQUE

J. R. Scaris in *The Personnel Administrator* (USA), Jan. 75: p. 50 (3 pages, table)

Describes a programme aimed at identifying and taking action on people at the top and bottom ends of the performance spectrum, and cites improved performances achieved by its use in Honeywell Information

OFFICE PRODUCTS

Hoechst tackles Xerox and IBM

BY ROY LEVINE



Mr. Ken Barge

IF THE company can develop all three of its products successfully within the next five years, we would consider it to represent a model of what the ideal office equipment company of the late 1970s should look like."

The three products are a plain paper copier, an editing typewriter and a facsimile transmission device. The company is Savin Business Machines Corporation of the U.S. and the comment was made by a New York stockbroker.

On this side of the Atlantic Kalle Infotec, a mirror operation of Savin, has been set up by the German giant, Hoechst. It is a wholly-owned subsidiary with operating headquarters in Wiesbaden and is essentially a marketing company.

This deliberate strategy, involving trading agreements with Savin in the U.S. and Ricoh in Japan, gives a small company the opportunity of making an enormous return on capital without becoming involved itself in the high costs of research and development and tooling for manufacture.

The first three suggestions could be applied either to developers or to occupiers depending on who did the work. The second and fourth are perhaps particularly apt. Mr. Jones points out that a company can charge the whole of its energy bill against tax (as part of its regular running expenses) but has to treat the installation of insulation as a capital item to be depreciated over a period of years. With local government expenditure nearly out of control, anything which shielded the office employer from higher rateable values would be very well received.

His fear, like that of many others anxious to cut the nation's fuel bill, is that suggestions of this kind will take so long to pass through the Whitehall and Westminster machinery that precious years will be wasted.

This is not to say that Mr. Jones expects all the initiative to come from the government. "Architects have a part to play, designing buildings with no more than the necessary area of glass so that heat losses and heat gains are not excessive. And large savings can be made by a more sophisticated control system so that unoccupied lighting, heating or ventilation is switched off."

In his view many an office manager lives in a world of false economies where every effort is made to cut capital spending to the bone even if it results in a large increase in annual running costs. The Government can play a big part in changing these attitudes but in the end the battle will be won or lost in the boardroom or the manager's office.

This technology is the foundation for the Kalle Infotec 6000. Having one product in each of three markets leaves the company with no products to sell. Precautions also need to be taken: that the R and D of the manufacturing firms are adequate to cope with the pace of obsolescence in each product area.

Hoechst has gone into the venture because it recognised the potential of the office equipment market and had Infotec to concentrate on the technology to compete with Xerox, the giant that dominates the world markets in one sector.

The three products that Savin and Hoechst have settled on are not related. But on a superficial analysis it is easy to see why it chose them. The R and D of the manufacturing firms are adequate to cope with the pace of obsolescence in each product area.

Savin has contracted the manufacture of the machine to Hazeline Corporation, which builds the machine around the IBM Electric Typewriter. The main feature of the system is its buffer memory that allows the typist to edit the copy before it is recorded in the magnetic tape cassette. In Britain it is called the Kalle Infotec 7000.

The research and development of the IBM Memory Typewriter was done by Arthur D. Little under an agreement which gave Savin exclusive world-wide rights to manufacture, sell and sub-license in exchange for royalty payments.

Savin has contracted the manufacture of the machine to Hazeline Corporation, which builds the machine around the IBM Electric Typewriter. The main feature of the system is its buffer memory that allows the typist to edit the copy before it is recorded in the magnetic tape cassette. In Britain it is called the Kalle Infotec 7000.

On the other hand the editing typewriter and facsimile transmission markets in Europe are still embryonic.

The plain paper copier market offers opportunities to Hoechst because of its experience in the photoconductor field.

The key to Hoechst technology is that it uses an organic photoconductive belt rather than an inorganic photoconductive drum as in Xerox equipment.

"They have saturated the field with salesmen yet the markets are not yet ready for the hard sell—there is still an educational role to play before gaining grass roots acceptability," comments a rival.

Kalle Infotec admits it is in a hurry. "Mr. Kenneth Barge, managing director, says, 'We need to reach a certain volume before there is any question of years' time perhaps there will be only three or four companies

transmission. In the U.K. this on a rental basis, we need a

base quickly to get into the black."

Mr. Barge is reluctant to state what resources Hoechst has put behind the effort. Equity capital is just under £2m. and there is a substantial but undisclosed amount of loans. The total investment in the U.K. could grow to £50m. by the end of 1977.

That seems a lot of money to support what the company hopes will be its gross income at the same date. Even so, the real pay-off could come in the ensuing years.

The management has some ambitious targets: a quarter of the total automatic typewriter market by 1977, a third of the facsimile market and one-tenth of the copier market.

It is obviously too early to judge the success of the company's marketing efforts and there are no objective figures to show its penetration. Mr. Barge claims to have established an installed base in copiers of well over 1,000 machines in two years and to be second in new installations to Rank Xerox in a field of over 20. He is even holder in his claims for the Kalle Infotec 7000 Text Editor which has been on the market for just under a year. "We are installing more units per month than anyone else," including, of course, the ubiquitous IBM, reckoned to have over 80 per cent of the U.K. automatic typewriter market.

In facsimile transmission there is no modesty at all. Mr. Barge claims that since bringing the fast transmitter to the market last August over 100 machines have been installed and the rate of new installations is the fastest in the country.

The faster Infotec 6000 can give economies even though its rental prices starting at £25 per month are more than twice the average for competitive products. But in this Eldorado, Kalle Infotec could face resistance now that many of the six-minute facsimile machines are compatible between brand names.

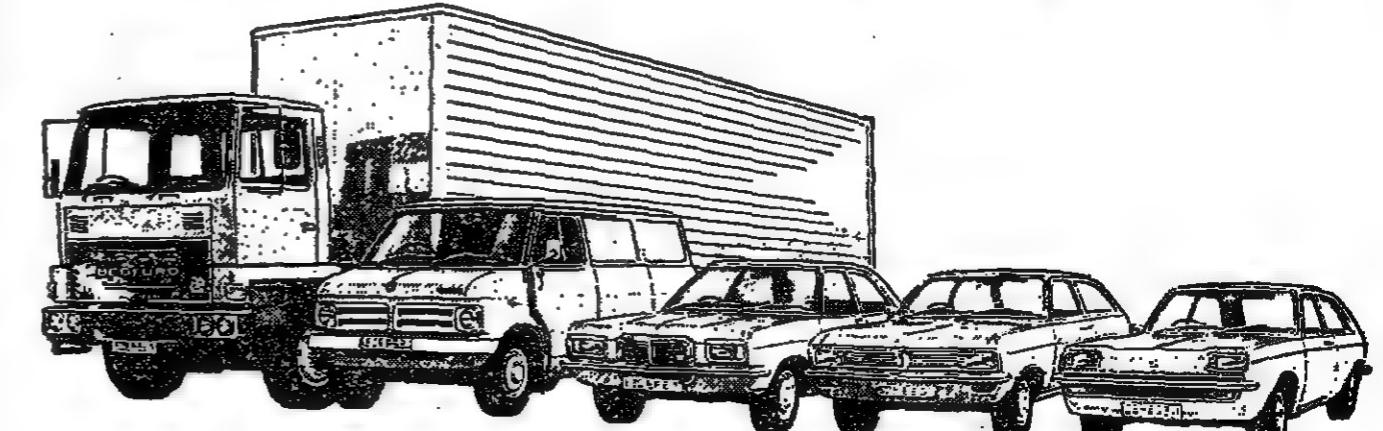
Overall, unless Hoechst is prepared to throw unlimited resources into the market, it seems that Kalle Infotec's chances of becoming the "Third Force" in the office equipment market, after IBM and Xerox, are slim.

"Because of the sheer size of the technology and capital required to establish a market, it seems that Kalle Infotec's chances of becoming the 'Third Force' in the office equipment market, after IBM and Xerox, are slim."

"Master Hire admits it is in a hurry. "Mr. Kenneth Barge, managing director, says, 'We need to reach a certain volume before there is any question of years' time perhaps there will be only three or four companies

transmission. In the U.K. this on a rental basis, we need a

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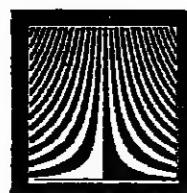
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The Technical Page

EDITED BY ARTHUR BENNETT AND TED SCHOETERS

MACHINE TOOLS

EMI bid for a world market share

EMI-MEC, the machine tool subsidiary in the EMI group, is bidding for a large slice of the three-speed motor driving multi-million pound world market for large capacity camless automatic lathes with a four range from 50 rpm to completely new 50 mm. (2 inch) bar capacity machine.

Auto Sprint Series S contains facilities not previously available on a single spindle machine, together with an improved version of the company's plug-board system.

Series S has a low-profile format offering robustness, rigidity and all-round accessibility. Among its facilities are several original features—some patented—which contribute to an extremely versatile design. It incorporates a self-adjusting collet mechanism allowing a 0.75 mm. (0.030 inch) variation in the size of bar stock without collet adjustment; completely automatic random-selection of turret position and independently operating cross slides with longitudinal traversing on the front slide. Copying is also possible using an optional copying unit in conjunction with the front slide traverse facility. Other like feed bar to stop and copying

have been built into the program and can be selected by the use of a single diode pin.

All the separate major functions of the machine have been placed on individual printed circuit boards. The individual slides have an automatic retract facility further to simplify setting and programming.

A self-compensatory switch allows for variation in bar size of up to 0.030 inch (0.75 mm.) once the collet has been primarily adjusted. It provides significant operating economy by eliminating the need for frequent adjustment and allows the setter to operate with much wider tolerances in bar size.

This is its first move into the large capacity auto lathe market with a machine completely to the company's own specification by EMI-MEC which now has more than 10,000 systems of plug board sequential control in the field.

Because of the number of machines already in existence and problem of retraining operators, this machine retains the standard plugboard control system but allows for the latest programming technique to be used. Certain logic functions

EMI-MEC features such as woodpecker feed are also included.

In place of waterproof switches, which experience has shown to be susceptible to trouble, all the rapid switch settings on the machine are activated by electronic sensors which have no contact between the moving dolly and the switch. This also enables the settings to be made manually by sliding key trips, obviating the use of keys or spammers and further reducing machine set-up time.

Slides for this machine require high pressures, particularly since the complications of a mechanical drive to the turret have been abandoned. Operation with air pressures alone would require very large power units and very great air consumption. To overcome this, the developers designed a new system to give high pressure to air and still maintain the necessary high thrust to the slides. It is achieved by advancing the slide to its rapid check position with a small air cylinder at which point the pneumatic/hydraulic intensifier takes over and supplies a high pressure for the working stroke. This avoids the necessity for the sophisticated circuitry which would otherwise be required in hydraulic machines. Typical air consumption for a theoretical program using all slides on an average workplace would be 5 cu. ft. per minute giving a theoretical thrust of 1,700 lbs for the cross slides and 3,000 lbs for the turret.

EMI, 135 Blyth Road, Hayes, Middx (01-873 3888).

Six stations

Any one of the six stations of the turret can be directly selected at random, avoiding indexing the turret sequentially to the required position. This auto-selecting capability, which allows substantial time-saving and great flexibility in tool setting, is a considerable advance over conventional skin indexing, and also is of particular benefit with the turret. In addition the auto-selecting turret enables movement of the turret to be interlocked with the turret station selector so that the turret will not proceed until the correct station has been located. Each turret station has its own feed control needle valve which is automatically selected. The usual

Office Equipment

Binds books easily in the office

ACCORDING TO Business Aids 3, Whitby Avenue, London NW10 7SQ (01-965 9321) it takes about 11 seconds to "produce" a professionally bound book" using the Bindmaster.

The machine will take any thickness of paper and securely bind them in a wrap-around cover, in permanent book form to international standards. Alternatively the pages can be edge-bound only. The books open flat, and stay open flat says the

company. No accessories are needed such as drills, punches, plastic strips or metal tags.

Binding length is up to 17½ inches (covering A4, foolscap, and computer print-out sizes) so that the machine should be suitable for sales reports, manuals, catalogues, records, bulletins and legal papers.

An adhesive thickness control and numerical counter enables the glue volume to be adjusted to match the spine of the papers being bound. Glue coating is automatic, and there is a thermostatically controlled heating system that quickly brings the adhesive to the correct operating temperature and then switches on the cooling drum.

Interlocking prevents use of the machine before the correct temperature has been reached.

Processing

Cleans up cutting oil with ozone

OILS AND their emulsions used for lubricating and cutting are prone to become contaminated with micro-organisms. After a time, particularly in warm weather, the fluids can begin to ferment producing a disturbing, penetrating smell and causing health problems including skin and eye complaints.

Recently made available in the U.K. from the Swiss firm Ozone Blatter and Co. is a cleaning technique in which air containing ozone derived from an

ozoneizer is directly injected into the emulsion. About 10 grammes/200 litres of fluid/day has been found sufficient to prevent decomposition. It is also possible to regenerate cutting oils that are already heavily contaminated.

According to the company a "spectacular" increase in the life of emulsions can be obtained, saving up to seven fluid changes that would otherwise have to be carried out.

A typical installation would consist of filtration to remove metallic particles in suspension, ozone generator using high tension electrodes and compressed air/ozone mixing and injection. More from the U.K. agents Stomius Vischer and Co. 38 London Wool Exchange, London E1 6EP (01-247 1691).

PLANT & MACHINERY SALES

Description	Price	Telephone
Continuous mixing plants by Gardner with pneumatic weigher by Darenth. Feed screw conveyor. Output up to 25 tonnes per hour. Control by single operator. Nov 1971.	P.O.A.	06284 77555 Telex: 923969
Plastic and rubber Vickers Transformic E150, new 1971, complete with 250hp Thyristor drive (4 off).	£15,000 each	06284 77555 Telex: 923969
N.C. Flexowriters for Punching N.C. Programme Tapes—Rebuilt with 2 year Guarantee—Save up to 50%.	From £1,250	Dudley (0384) 57453
Fork Lifts Fully Renewed, large selection, 6 months warranty. Purchase and Sale of Reconditioned Rolling Mills, Wire Drawing Plants, Levelling, Slitting and Coll Processing Equipment.	P.O.A.	01-572 3451
Dundford and Elliott Rotary Louvre Dryer 47 dia. X 14' Weight 10 tons. Turret Punch Press. S.15B GEC Control Unit. 15 tons capacity 1971 Ravensburg Plate Lath Model P20-S23.	£21,556 0904	01-253 6000
Herbert De Vlieg Spinaratic Jigmill, Boring, Drilling and Milling m/c Series 13H/48 with Dataflex Mark III Numeric Control System.	£1,500	01-606 7051 Ext. 8
Clearing Type F/2700/168, Single Action, Two Point Suspension 700 Tons Power Press.	£14,000 +VAT	061-339 3221
Liebherr Tower Crane 190C/SI IRO 932, 1971. Height 82.5m. Free standing. Radius 50m. Capacity 3 tons at max. radius, 10 tons at 17m.	£30,000 +VAT	051-525 4141
Electron Microscope. Siemens Elmiskop 1.	Offers Complete £750	0423 67265 0384 69113
Putzknecht Type 544 Plastering Machine. Slightly used.	£19,770 +VAT	067-433 2351
Wadkin SCD 50M N.C. Miller with Flexowriter. Unused.	£26,000 +VAT	0234 740542
Gildemeister 6 sp Auto Cap 32mm. Modell AS32 1965. Excellent.	£17,876 +VAT	Halifax 61641
Butler NC 550 Low Cost Numerically Controlled Lathe 40° centres and Cincinnati 22BD Point to Point Control.	Complete £40,000	061-552 4959
Hydrat Conveyor System. 11,000 ft. 500 trolleys. One year old.		

IF YOU HAVE PLANT AND MACHINERY SURPLUS TO YOUR REQUIREMENTS AND WOULD LIKE TO ADVERTISE IN THIS COLUMN, PLEASE TELEPHONE MR. FRANCIS PHILLIPS ON 01-234 0108.

CONTRACTS AND TENDERS Appear every Monday

CALL FOR OFFERS FOR SELLING 200,000 TONS PETROLEUM COKE

Hon. Pet. Ref. Co. calls for offers for selling 200,000 metric tonnes coke produced by its owned units and according to the following conditions and specifications:

DELIVERY PLACES: 1. SUGAR PLANT AT KARACHI, PAKISTAN.

2. TO BE SPECIFIED IN THE TENDER.

3. GUARANTEES: Offer must be equivalent to 2% of its total value either by bank guarantee through a commercial bank or by a payable cheque.

4. PAYMENT: By confirmed L/C.

5. DATE FOR OFFERS: Wednesday 25 June 1975 to:

HOME-GROWN CEREALS AUTHORITY Hamlyn House Highgate Hill London N19 5PR.

Sealed tenders (except Money Order) will be invited from reputed manufacturers in India, Japan, West Germany, U.K., U.S.A., Canada and Rupee Payment areas for supply of Petroleum Coke to the following plant to be run by the Chief Engineer (Project) Madras Port Trust, South Beach Road, Madras—600001 before 2.30 p.m. on 13.7.75.

Tender documents can be had from the Deputy General Account Officer (Engineering), Madras Port Trust, Madras—600001 (India) on payment of a sum of Rs.50 (non-refundable) quoting No. U/2692/75/E dated 9.1.75.

PRICES: Offers shall follow prices as given below:

FOB Tariffs: The administration has the right to change the export price.

MAXIMUM DRAFT: From Tarbo's harbour the maximum draft is 10.5 m.

QUALITY & SPECIFICATIONS:

- Apparent density: 1.05-1.20
- Moisture (% wt.): 0.4-0.6
- Volatile matter (% wt.): 0.8-1.2
- Ash content (% wt.): 0.5-0.8
- Grindability factor: 60-100
- METAL CONTENT: ppm
- V. N. S. 500 max
- N. S. 500 max
- Gross Cal. value: Kcal/kg 3300

For further information, please contact Mr. R. S. Marwah, Ref. Gen. Director.

SAFETY

Cable can give fire alarm

HEAT SENSITIVE cable used by the company for protective devices in its electric blankets for years has been adapted by Monogram Electric for use in a fire alarm system called Alarmline.

Main advantages of the system are that it is simple to install, consisting from no more than a length of 3 mm diameter coaxial cable and that it offers continuous linear detection along the cable length, there being no point detectors.

The idea of using Monogram's product in this way seems to have originated at the CECB's research laboratories at Leatherhead, and the company has now formed a fire detection division to market complete systems.

Detection consists of monitoring increases of leakage current in the cable, which is outer and inner conductors separated by a dielectric that reduces resistance with increasing temperature. Currents flowing are in the hundreds of microamps.

Again, apart from possible confusion between foodstuffs and detergents, it is also necessary to distinguish between detergents which are alkaline or acidic, and those which are neutral or slightly alkaline or acidic.

The colours chosen are red,

yellow, green, blue and black. When the heat source is removed, the system resets after about one minute. Full test facilities are built in.

A likely application for Alarmline is in protection of warehousing and ship-borne ducting, and

ship-borne ducting, and building evacuation.

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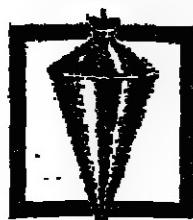
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When the heat source is removed, the



Building and Civil Engineering

John Laing looks ahead

MUCH GREATER involvement in overseas activities by John Laing can be expected following today's announcement that the Group has set up a new subsidiary company to be known as John Laing International.

As just announced in its annual report the Group's turnover in 1974 was £245m and the overseas share of this was 16 per cent. This year, overseas turnover is expected to be well over 20 per cent of the total for 1975.

With prospects not so bright at home, but glittering opportunities manifest overseas, especially in the Middle East, Laing is pinning great hopes on the new company which will have the Group's chief executive, Mr. G. F. Parsons as chairman and Mr. J. W. Charnley as deputy chairman and Mr. J. M. Watt as managing director.

John Laing International makes its debut with some big jobs in hand and much bigger ones looming up.

Laing is already very much occupied in Spain and can now be included among the largest in the construction business in that country. One of its latest ventures there is its involvement in the toll motorway concession in which it is a partner.

Now it is about to start work on a substantial part of the contract for the road which will run for 180 km from Malaga, near Bilbao to Burgos. Laing's Spanish company now has a Spanish president and there are also Spaniards on the Board.

Lining the sewers of Singapore

McCONNELL DOWELL South East Asia PTE of Singapore has placed an order with Charcon Composites of Middleton-by-Wirksworth, Derbyshire, for glass reinforced cement sewer linings for the Bukt Timah Sewer Contract 3, Singapore.

McConnell Dowell is the general contractor for this project which involves the construction of a sewer 2 metres in diameter and some 1,000 metres in length.

This is the first major order for Charcon Composites' new Wirksworth factory since it was completed last month. The company declined to disclose the value of the order.

Charcon Composites is a member of Charcon, the construction industry subsidiary of the Charhouse Group.

Fitting out a big Co-op store

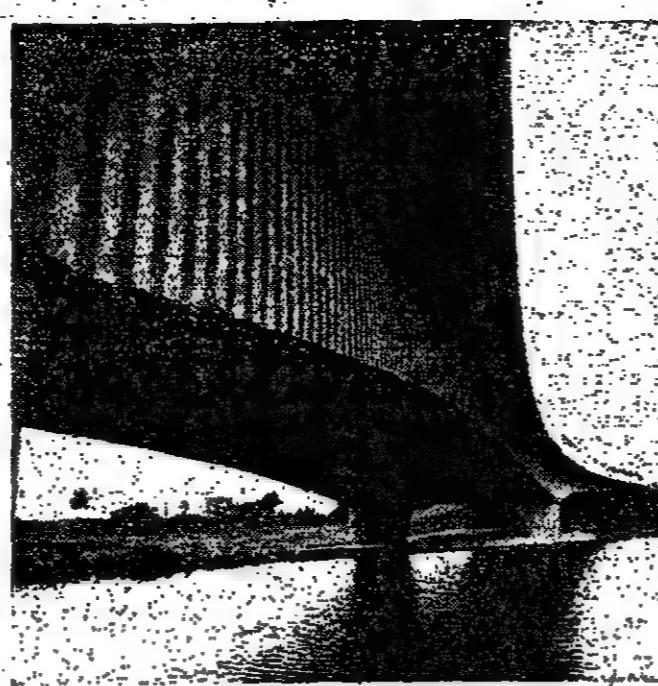
A CONTRACT, worth £1m, has been awarded to Sir Robert McAlpine and Sons by the London Co-operative Society for fitting and fitting out work on a commercial development currently under construction for St. Martins Property Corporation in King Street, Hammersmith, London.

Design-Construct STANHOPE WHITE LIMITED

Building, Civil, Mechanical and Electrical Engineering

Preston office:
109 Garstang Road,
Preston, Lancs.
Tel: 0772 23331

Brussels office:
Avenue Charles Brusse 30,
1160 Brussels:
Tel: 02/673.35.68



Oil platform floated out

THE FIRST stage of the 535m. platform is positioned at its drilling location in the Dunlin field north east of the Shetland Islands.

During the next 12 months, the caisson will be completed by ship forming to a height of 32 metres and rooted. This second phase of work will also include the construction of four slip-formed concrete towers which will take the total height of the structure to 144 metres.

Five tugs towed out the partially complete 9 metre caisson weighing 70,000 tons after the dock in which it had been constructed had been gradually flooded over a three-day period and the earth wall between the dry site and the Beekend had been removed by dredging.

Draught reduction of the structure which has an area of one hectare and will eventually weigh 250,000 tons was achieved by using an air cushion.

Since May last year, massive concrete piers have taken place on the site—part of the Europa area of reclaimed land—to form 81 cells which make up the caisson and will provide storage for 1m. barrels of oil when the

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CRENDON CONCRETE LTD
Tunbridge Wells, Kent, England, CR8 2AS

Mining and railways contracts

THE Cementation Company (Australia) has been awarded a contract worth \$43.1m. for the construction of a 1,500 metre long drift at a new coal mine at Tumbarumba, NSW. The drift will be 4.2 metres wide and 4.2 metres high.

The work is being carried out for Clinton's Transport, a subsidiary of Clutha Development. Work will start in August and take about two years to complete.

Cementation (Africa Contracts) (Pty.) has won the contract to erect station buildings, platforms, signal cabin and other premises on the new Vryheid-Richard's Bay railway. There will be 21 stations and halts along the 160 km. line which is expected to open next April.

The remaining contracts are awarded to Cementation by South African Railways totalling R3.4m. The others are for two goods depots and installation of a stormwater drainage system at one of the goods depots.

Freight carried on the new line will include 3.5m. tons of coal annually from the Transvaal coalfields.

Extensions by Wiltshire

REFURBISHING and extension of offices in Eastcheap, London, for Commercial Union is to be carried out by Wiltshire Construction at a cost of £15.925.

The company is also to extend the telephone exchange at Kingston-upon-Thames, Surrey, for the Property Services Agency. This contract is worth £268,285.

Wiltshire has nearly completed a £1.3m. computer centre at Whitleydale, Surrey, for Commercial Union.

Orders roll in for Shepherd

CONTRACTS

in the Midlands, worth more than £8m., have been secured from government departments and local authorities by the Midlands region of Shepherd Construction.

The largest contract, worth more than £2.75m., has been placed by the East Midlands Gas Board for a service centre at the Leicester. Part of the site for the new centre includes the disused gas works in Leicester, police headquarters (£500,000) and the Kettering Latimer Secondary School (£286,000).

A second contract, worth

£2.35m., is for 301 dwellings at Beeston Lows, Leicestershire. Contracts have also been received from the Department of the Environment for a driving school at Cardington (£670,000), from the Oxford Regional Hospital Board for health centres at Woughton on the Green and Wolverton, totalling over £1m. and from the Steeplechase Company (Cheltenham) for the erection of a dining room and kitchen block at Cheltenham Racecourse (£286,000).

The remaining contracts include a shopping unit at Wolverton (£254,000), an extension to the science department at the Bedford School (£254,000), phase 2 of the Wootton Hall police headquarters (£500,000) and the Kettering Latimer Secondary School (£642,850).

that the other ends are spaced apart by a small, prescribed amount. The ends are rag-bolted or similarly secured. The gauge itself is under no strain.

Changes in the gap due to strain are measured by the second arm of the unit—a laser beam. This is projected through the gap to produce a diffraction pattern on a vertical surface the other side. Although the gap changes are small, they produce large variations in the diffraction pattern interpreted to give gap change data.

In one version the pattern is recorded on film and in another the camera is replaced by a photocell which can give an immediate on-site result. More from the distributor Survey and General Instrument Co., Fircroft Way, Edenbridge, Kent (0732) 21111.

One part of the system is mounted on the number to be measured. It consists of two straight bars in the same straight line each fixed at one end, parallel to the surface of the concrete and just clear of it, so

Watches for movement in concrete

A NON-CONTACT device for measuring deformation in concrete beams and lintels, developed by Diffracto of Ontario might find application in the strata monitoring of structures using high alumina and other quick drying cements.

One part of the system is recorded on film and in another the camera is replaced by a photocell which can give an immediate on-site result. More from the distributor Survey and General Instrument Co., Fircroft Way, Edenbridge, Kent (0732) 21111.

Wiltshire has nearly completed a £1.3m. computer centre at Whitleydale, Surrey, for Commercial Union.

Tarmac to build £3m. factory

TARMAC Construction has been awarded two contracts with an in-situ concrete mezzanine floor giving a gross floor area of 9,600 square metres. Two of the perimeter walls will be of temporary construction to provide for future expansion.

£1m. worth of jobs for Mears

TWO CONTRACTS, totalling over £1m., have been won by Mears Construction.

In Haverfordwest, the company is to erect five residential blocks for hospital staff for the Welsh Health and Technical Services Organisation at a cost of £573,687. The work is

Effects of rain on masonry

RESEARCH to determine the resistance of various types of brick masonry to rain penetration is to be sponsored by the Mortar Producers Association.

The research programme will be carried out by the department of construction technology at Birmingham Polytechnic and several test walls will be built from Fleeton and calcium silicate bricks, using cement, lime and sand, aerated cement and sand and masonry cement, and sand mortars.

The walls will be placed in a test chamber and subjected to simulated heavy rain. Continuous measurements will be made of the amount of water penetrating into the walls during the tests.

Performance of the walls will be compared with that of two "control" walls bonded with waterproof epoxy mortar.

Water penetration in brickwork usually occurs at the interface between the bricks and the mortar, or conversely, rather than through the bricks themselves or the mortar itself. The research programme will determine which mortar forms the most watertight interfaces.

It is expected that the tests will be completed by the end of the year and a report published shortly afterwards.



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MONDAY, JUNE 16, 1975

Sterling and money rates

THE May trade figures have diminished and the oil producers are now much more careful where they put their "dipper" package. But the central bank swaps breathing space may not be a within months. The IMF, EEC and OECD facilities have political strings of various kinds; and in any case it would not be a good idea to exhaust all borrowing opportunities this summer.

Undesirable

It is natural, therefore, to ask if interest rate policy is pulling its full weight. An overseas holder will, other things being equal, keep his funds in London if the interest rate advantage he obtains is at least as great as the expected depreciation of sterling. Holders of three month sterling deposits who cover their holdings forward against Euro-dollar deposits now face an adverse interest differential of about 1 per cent. But rectifying this is not as easy as it looks, both because a large mass of sterling balances are not covered forward and because a rise in interest rates could provoke an offsetting widening of the forward discount on sterling.

On uncovered funds there is a differential in favour of London of 4-5 per cent, well below the gap between the rates of inflation. An artificial boost to UK interest rates to attract "hot money" would be undesirable in itself and probably would not work.

The real question is whether domestic monetary policy is on the right lines. The present heavily negative real interest rates of minus 18 per cent, even for non-taxpayers, are in part explained by the lack of business demand for credit. But it also owes something to the highly liquid position of the banks; the money supply figures understate the true degree of financial ease. One can argue about whether the credit base should be tightened now, or whether the authorities should wait for signs of renewed demand for credit. But on balance they are probably putting too much weight on the further overseas borrowing.

Unless the British rate of inflation can fall to somewhere near the international average—which is around 10 per cent—and still dropping—sterling will continue to be subject to bouts of weakness and tend to fall against the major trading currencies of the world.

The wrong way to react to any further pressure on sterling would be to dip heavily into the reserves to support the pound. Even the modest support given in the middle of May cost a tenth of the reserves. Nor is there an easy solution through further overseas borrowing.

U.K. public authorities have already borrowed more than enough on the strength of expected oil revenues. The petrodollar surplus is fast growth.

A new approach to steel pricing

FOR a nationalised industry to cut prices in order to wrest business away from its competitors is a rare enough event to call for some celebration, even if part of the reason is the severity of the present recession. But the British Steel Corporation's decision to reduce some prices by 8-13 per cent on a group of widely used products (while increasing other prices "where the market will stand it") is especially welcome, for two reasons.

First, it represents a determined effort to win back some of the ground lost to imports during 1974, when the BSC's production performance fell far below market requirements, largely because of strikes and technical difficulties. Foreign steel poured in to fill the gap and the consequent trade deficit in steel (where the U.K. has traditionally been a large net exporter) played a significant part in the worsening balance of payments.

Contracts

Many of the contracts with Continental and Japanese mills which were made during 1974 are due to expire during the next six months. The BSC's offer is designed to win back these customers and to provide some badly needed additional business for its own plants, many of which—especially on the strip mills side—are operating at 50 per cent of capacity or worse. How the foreign suppliers will react remains to be seen; they, too, are desperately short of orders in what is widely regarded as the worst steel recession since the war. But at least the Corporation is showing that it is prepared to fight in the market place and not to be bound by the rigid pricing policies which have characterised the industry in the past.

This new-found flexibility is the second reason for welcoming the BSC's announcement, which puts the commercial responsibility where it implies that the Govern-

EEC membership means more overseas chemical company spending in the U.K., reports Ray Dafter

The Financial Times Monday June 16 1975

A chemical reaction to the referendum result

THE chemical industry will be watching with more interest than most how down in their new jobs. On the face of it the Cabinet switch is fortuitous from the industry's point of view as it at least maintains an air of continuity.

As Industry Secretary, Mr. Anthony Wedgwood Benn had long realised the importance of transforming Britain's assets of North Sea oil and gas into value-added industrial products.

It is reckoned, for instance, that the value of crude oil can be increased by 10 to 20 times by the time plastics products are produced. Thanks to a persistent campaign by the chemicals and plastics industry, the Department of Energy and Mr. Eric Varley has been getting a similar message in recent months.

Eastern coast

Dr. Arthur Taylor, chairman of ICI's petrochemicals division, has already spelled out the potential. Because of North Sea oil there could be an important shift of production, away from the inland areas like the traditional German sites (at the moment involved in pollution and environmental constraints) towards the eastern coast of England and Scotland. He believes that the U.K. production capacity for ethylene—one of the most important petrochemical materials—could grow from the existing 1.8m. tonnes a year to 4.0m. tonnes a year by 1985. This growth compares with 111 per cent. in the South of France and Italy (the next most favoured growth areas), 62 per cent. in West Germany and Austria and 71 per cent. in Benelux and northern France.

Such a swing in the balance of European production would mean the construction of five refineries in the next decade. And it would be surprising if overseas companies were not involved in at least one of the five schemes. There can be little doubt that the British vote to remain a member of the EEC has strengthened the interest of foreign companies in the U.K. For continuing EEC membership is a prerequisite for many of the U.K. investment plans being considered by overseas companies. And over the next five years or so a higher degree of foreign investment is likely to be directed to the U.K. chemical industry.

While there are obvious economic and inflationary problems—frustrating immediate developments—most companies are re-evaluating or retiming projects—the chances of Britain attracting more chemicals investment has been enhanced by the referendum result.

Indeed, a straw poll of some of the major chemical groups

has shown that in the short to likely to build two new agrochemicals plants at King's Lynn, a medium timescale, and given a chemicals plant at Nortfolk, at a total cost of about £10m. One, for the production might invest well over £100m. in of a new agriculture fungicide, plant coming to the U.K. rather than to another European country. Among ethylene pro-

jects, for example, at least two

I could not see these plants

going ahead if Britain had the opportunity to leave the Common

next major "cracker," involve

voted to leave the Common

been dashed had the referen-

ence to North Sea oil. Ray Dafter, for instance, is considering building a "major complex" for instance, is considering

the possibility of a go-

ing to the U.K. rather than to another European country.

Several sites in the North Sea

and Scotland have been

evaluated and there is specula-

tion within the industry that a

capital commitment of as much

as £100m. might be required.

Hoechst has been a little

more forthcoming, outlining

a programme of some sites

for the next five years. It is known

to be anxious waiting to see

which company builds the new

ethylene plant before committing

itself to its desired poly-

ethylene expansion. Indeed,

surprisingly, the other mem-

ber of the German "big three,"

BASF, has no plans for large

investment in the U.K. Never-

theless, it still regards the

referendum vote as a "ve-

come" benefit to the EEC and

the British economy.

The Swiss-based group, Ge-

Geigy, which has already spent

£100m. in the U.K. plans to

invest over £150m. more,

although, it pointed out, the

worldwide economic recessions

made the need for extra capacity less urgent.

The squeeze on cash flow and

the uncertainty of markets are

likely to foster more joint ventures, where risks are shared.

Here again, the U.K. looks like benefiting. Sir Giuseppe Ratti, a member of Montedison's Board, sees his Italian group becoming more deeply involved in the U.K. industry. For instance,

Enthusiasm for joint venture

Sir Ratti, who is in charge of the company's international affairs, pointed out that Montedison and Monsanto were already involved in a project in manufacturing nylon fabrics. It stands, Roht and Haas (UK) currently spending £2m. on

industrial laminated expansion

but it might soon have been

involved in a more ambitious

low density polypropylene deve-

lopment had it not been for an

explosion at Union Carbide's

plant in Belgium in February.

As it stands, the money which

might have been available for

the U.K. is being used to

rebuild the damaged plant. Even

so, it is possible that XYL may

go ahead with its LDPE expan-

sion at Grangemouth in a couple of years time. This is a project which would easily run

into eight figures.

U.S. companies have, in recent years, accounted for

about 20 per cent of the U.K. chemical industry's capital investment and turnover.

The common language, ease of communications and historical links

and clearly this affinity has been enhanced.

Montedison, for instance, is

already involved in a project in

manufacturing nylon fabrics. It

was linked with ICI in a venture in

the U.K. Montedison would

be involved with greater enthusiasm

in a planned joint venture

with ICI to produce limestone

for cement in the U.S.A.

The interest of these overseas chemical companies in the U.K. industry is an encouraging feature, too seldom highlighted at a time of mounting economic problems. Naturally, they would be interested in expanding something like £100m. worth of new plants in the U.K. company's business.

Indeed, the Scandinavian group, Norsk Hydro and Scania, would not be considering building a £250m. ammonia plant in Scotland, but for the availability of gas from the Firth Field. Even then the U.K. would probably have lost the plant to Norway had the consortium been able to pipe the gas from the field across the Norwegian trench.

Something like £100m. worth of expansion which has been pigeon-holed for the time being.

Uncertainties over the Common Market issue was cited as one of the reasons why these companies would have halted the project. Now there are more fundamental issues: in particular Britain's ability to overcome its economic problems.

In addition to this expansion

issues: in particular Britain's

planning inquiry is expected

to formulate a formidable barrier to large-scale investment.

Pigeon-holed

expansion

Strengthened

that view

Another U.S. company

is

investing

heavily

on

Europe

They

account

for

about

20

per

cent

of

the

U.K.

It

stands

at

2%

of

the

U.K.

It

is

now

the

time</h3

FINANCIAL TIMES SURVEY

Monday June 16 1975

TUNISIA

Tunisia has enjoyed steady progress on most fronts since independence and has recently achieved some impressive economic successes. Apart from a rather eccentric foreign adventure early last year, President Bourguiba's unifying personality has done much to provide a clear lead for the country.

Fatherly hand on the helm

permit him to run the country's relaxing its previously iron grip affairs at an administrative level (though he retains control of overall policy-making) capital greater freedom of remains an all-pervading and, in movement and opportunity and a sense, almost constraining influence, rather like a respected father whose children naturally to the laws of supply are too much in awe of him to demand. The co-operative allow themselves an uninhibited expression of personal choice economic strategy in the sixties and for whom dissent is uncomfortable close to imperceptible, and, though it still has some serious problems to overcome.

Bourguiba's special place in which, to some extent, act as Tunisian history was enshrined a restraint on the rest of the at the end of last year when the economy's ability to expand National Assembly confirmed further, the predominant agrarianism as President for life which, cultural sector is clearly much his ministers insist, is an act better for this greater flexibility.

If ONE had to choose one word which might describe Tunisia's most identifying characteristic then it would probably have to be "stability". There are others, of course, some of which are equally flattering and some of which are less so. But "stability" is what best captures Tunisia's quiet and individualistic march since it achieved its independence.

There are some who would argue, and do so with a well-marshalled set of arguments, that this stability is superficial and largely linked to the charisma and fate of one man, after his departure and that the stresses and conflicts which exist within Tunisian society will bubble, or possibly erupt to the surface. That man of course, is Habib Bourguiba, President and, in a very real sense for most people in Tunisia, father of the nation.

Whether the sceptics are right remains to be seen, of course, though the arguments they put forward are not entirely unreasonable and these are examined in more detail in a further article. What is certainly true is that President Bourguiba, whose age and health no longer

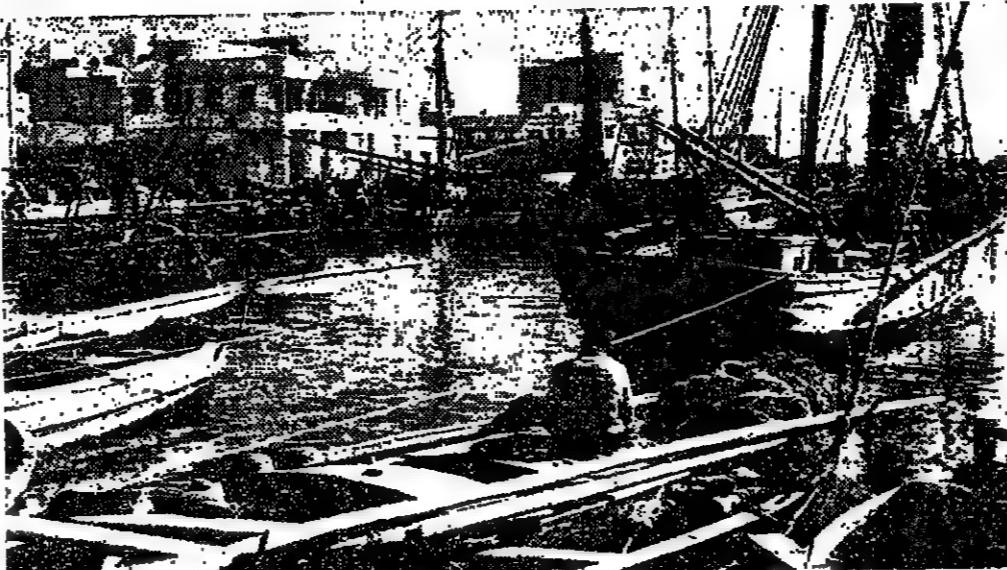
allow him to run the country's relaxing its previously iron grip affairs at an administrative level (though he retains control of overall policy-making) capital greater freedom of remains an all-pervading and, in movement and opportunity and a sense, almost constraining influence, rather like a respected father whose children naturally to the laws of supply are too much in awe of him to demand. The co-operative allow themselves an uninhibited expression of personal choice economic strategy in the sixties and for whom dissent is uncomfortable close to imperceptible, and, though it still has some serious problems to overcome.

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The harbour at Sfax.

were regarded as treason by the zealous President, is still far with Libya is still a fundamental goal of Tunisian, and almost extremist since they hold the project for union was the presumably Libyan foreign policy. The process however result of momentary if ill-will have to take longer. Whatever may have been Tunisia's motives in embarking on this ill-fated venture, it is hard to escape the conclusion that Col. Khedda, having failed to secure the union, with Egypt, in which Libya, and he personally, would play a dominant role, simply turned his attentions and his ambitions to the West where, presumably, he saw an easier catch.

The Prime Minister, M. Hedi Nouira and other key personalities who would almost certainly have prevented things getting that far had they known what was happening, were away at the time though they quickly returned and nothing more has happened.

The past 18 months have also, however, witnessed a less fruitful excursion into foreign policy by the President in the shape of the now celebrated Djerba declaration of January 1973 which, enshrined, but never fulfilled, the aim of full political, economic and military union between Tunisia and its eastern neighbour Libya.

The real story of what happened immediately prior to Djerba and the encounter between the ageing Tunisian leader and Colonel Muammar

deal which would almost certainly carry in its wake a long-term if not quasi-permanent Soviet presence in Libya. Such a presence, apart from fundamentally altering the balance of power in the region must, as one high Tunisian official put it, raise "serious question both about Soviet and Libyan intentions."

The whole complex web of relationships between the North African States appears to be in something of a poor condition at present with the reality, if not necessarily the vision, of Maghreb unity receding further into the distance despite an endless series of talks and negotiations. In some respects this seems to suit Tunisia's present mood of singular self-confidence and determination to pursue, at the greatest possible speed, its drive for economic viability.

One area which has deeply preoccupied the Government, and which has summoned up a minimum of co-operation,

between the three Maghreb States (Tunisia, Algeria and Morocco) is the ongoing negotiations with the European Economic Community aimed at

strengthening the existing association agreements for trade and economic co-operation.

The negotiations have been going for some time now and have been held up, at various stages, by two broad areas of disagreement between the

Maghreb States and some, though by no means all, of the members of the Common Market.

One of the problems has been the growing reluctance of

Tunisians discovered only after the visit to Tripoli and Tunis of the Soviet Prime Minister's certain European countries.

official explanation is that the declaration was misinterpreted by both sides but that union

was on the verge of signing a multi-billion dollar arms labour at a time of rising

BASIC STATISTICS	
AREA:	63,378 sq. miles
POPULATION:	5.5m. (est.)
GDP (1974):	D1.386bn.
GDP per capita:	D252 (est.)
TRADE:	
Imports (1973):	D261.6m.
Exports (1973):	D174.5m.
Imports from U.K. (1974):	D11.8m.
Exports to U.K. (1974):	D5.2m.
CURRENCY:	£1 = 0.86 Tunisian Dinars

unemployment and slack economic activity in its own country. Another problem has been Italy's persistent opposition to certain parts of the proposed free trade agreement particularly in the agricultural field.

The negotiations received a belated, though by all appearances, none-too-serious setback when the Community announced agreement with Israel on a similar trade pact.

The Euro-Arab dialogue went off on schedule in Cairo earlier this month (despite threats to suspend it) and the negotiations between the Maghreb and the EEC are unlikely to be delayed.

Realism and tactical flexibility have been a particular characteristic of Tunisian policies over the years; they have been, and are likely to remain for the foreseeable future, essentially moderate policies based upon the interests of Tunisia rather than those of a less comforting, though less predictable and in the long run less profitable militant Arab dogma.

Alain Cass

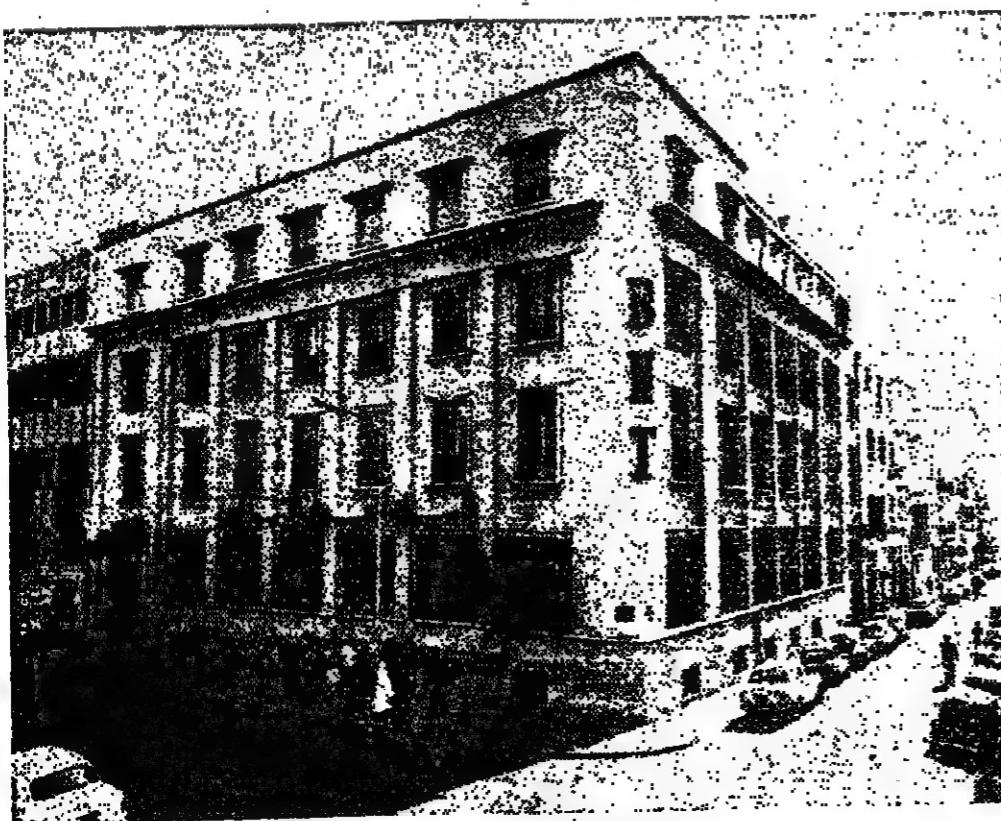
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TUNISIA II

With the economy at a turning point, the economic successes of recent years have produced rewards and challenges to be met by imaginative policies. Inflation has been combated by subsidies. The trade deficit has been reduced. Money is tightly controlled.

Economic realism

IT WOULD be surprising if an economy which has managed to register average real growth of around 10 per cent a year, for the past four years, did not find itself the recipient of financial performances due to a variety of plaudits. Indeed, to a number of factors, chiefly it would be hard to escape the good harvests, spectacular conclusion that such plaudits growth in the tourist industry may reflect, as much as anything else, the inadequacies and misfortunes of a world struggling to keep its head above water in particular, had economic weather judgments which, up to 1984, had been responsible for serious financial imbalances.

Global judgments, however, tend to do things. They almost always oversimplify what is, at least, a complex situation (and in Tunisia's case, this is particularly true), and they tend to obscure the nature of the problems the country faces by giving a picture which lacks the subtlety of shade required for a measured appreciation of the situation.

Fortunately, Tunisia's economic managers have not allowed success to go to their heads. At most levels, one finds a hard-headed realism (not always the characteristic of booming but underdeveloped economies), which largely removes the very real risk of complacency.

The point is not made flipantly. There is a prevailing argument among the present Government's critics that M. Hedi Nouira, the Prime Minister and the man unquestionably in overall control of the economy, and his Government are enjoying a particularly good set of circumstances not of their making such as the weather, which have boosted production and provided financial stability and that, to quote one such critic, they are "sitting on their laurels".

On the whole, this does not appear to be the case. What is true, however, is that the last monetary and credit controls, which characterised the late '60s and early '70s, have been relaxed.

It should be said that some observers and officials feel that, despite this, credit and money policies are still too tight and that considerable further potential exists both in local capital markets and those abroad. The Government is still reluctant to allow Tunisian investors to raise money abroad, largely because, after the years of overcommitment, the administration feels very strongly that viability can only be assured by living within one's means.

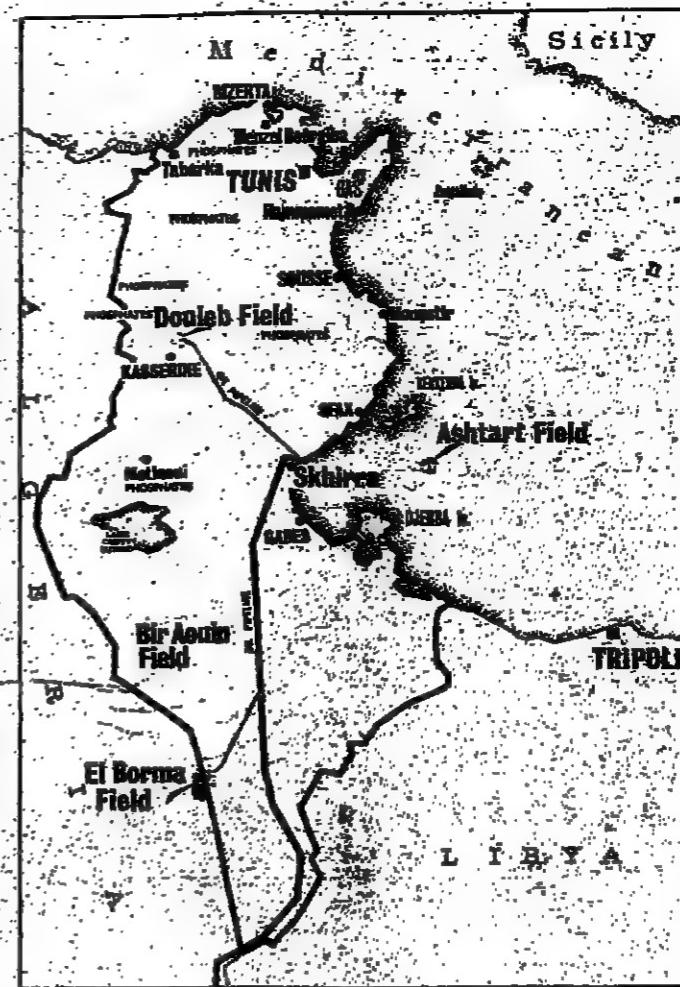
In any case, with investments in 1974 exceeding forecasts, to reach D322m., or over one-third of Gross National Product, this remains at best, a moot point.

Raising money abroad aside, local equity markets have shown a healthy growth with the volume of business on the Bourse de Tunisie rising from D2.9m. in 1971, to D3.3m. in 1972, D5.2m. in 1973 and vir-

Investment
The challenges, which have a lot to do with future planning and the abilities of M. Nouira's Government to attract investment in the right areas and deploy resources effectively, are the subject of following articles. Here we come ourselves to examining the background to the present achievements, the policies that have achieved this and the opportunities this has created.

The years immediately after independence were not easy ones. The suspension of financial assistance by the French Government, the repatriation of foreign capital and the severe shortage of skilled manpower were debilitating factors. These were offset by substantial amounts of U.S. aid, good harvests in 1958/59 and high agricultural exports. But in the early years and throughout the '60s, economic conditions were characterized by large trade and balance of payments deficits, unemployment and rather haphazard planning procedures—consistent characteristics of a developing country.

From 1961, when development planning can be said to have begun in earnest, to 1969, the economy registered average annual growth rates of around 4.6 per cent. Agriculture, then and now, the predominant sector, whose success, year by year, fundamentally affects the progress of the rest of the economy, grew by less than half that figure, actually registering falls from 1966-69 due, first to bad weather, and the dislocation caused by the drive to co-operatives and, in 1969, the floods. Since then, of course, growth



initially doubled to D10.2m. last year, from 1970-74, against a year.

The chief instrument of between 25 and 30 per cent

monetary policy in Tunisia is what is certainly true that the Central Bank and, one sur-

prisingly almost influential, at least two or three times as in other areas of economy, such as retail prices, so that

policy. Over the past few years, hidden inflation is probably

the banking sector has considerably expanded and one of

At any rate, the burden which

the reasons why pressure on the Government has chosen to

Government to allow the rai shoulder in protecting the

of capital abroad is not public from the effects of

excessive, is that the deposit inflation has won it consider-

able admiration and, with its

specialized credit banks and full employment policies, should

development institutions satisfy pay handsome political dividends.

A high proportion of local debts in the short term.

Perhaps the most dramatic

result of the Government's

policy of financial stabilisation

has been the structural change

in and improvement of the

balance of payments position.

Surplus

After a period, ending in 1968, when payments were consistently in deficit (D10.2m. in 1961/62, D4.4m. in 1965 and D1.7m. in 1966/67), the position improved quickly. In 1969, Tunisia registered a surplus of D8.4m. and D4.1m. in 1971, though this is reduced to D24.8m. by adjusting the effect of olive oil exports.

The trade deficit, which stood at around 10 per cent of GDP in the early 'sixties, has been subsequently reduced to less than 3 per cent. Exports, again as a proportion of GDP, have risen, while imports have fallen.

Despite, therefore, the fresh improvements based upon high olive oil earnings due to good weather, conditions and other variable factors, there is clearly an underlying improving trend both in the balance of payments position and to some extent in the external trading account, though this is likely to fluctuate depending upon the pace of industrialisation and capital equipment imports.

Tunisia's trading patterns have been traditionally influenced by its relations with France. Exports to and imports from France accounted for nearly two-thirds of Tunisia's external trade, but, after a series of events culminating in 1969 with the first association agreement between Tunisia and the EEC, France lost its predominant position in most areas, though still, in 1972, accounted for around 30 per cent of Tunisian trade.

The Community accounts for over half of Tunisia's trade (51.8 per cent of exports and 55.8 per cent of imports in 1971), while very little trade is done with its Maghreb partners (11.6 per cent of exports

and 0.4 per cent of imports). The concept of a Maghreb Common Market, as one high Tunisian official put it, is "for the present an unrealistic one". Ever since it severed its more formal bilateral economic ties with France, Tunisia has been attempting, with some success to diversify its sources of trade and, certainly, if its export-oriented strategy is to bear fruit this must remain a prime objective.

The United States has now moved into second place as supplier to Tunisia with imports reaching 15 per cent in 1972. (This includes large amounts of commodity aid.) So far as the re-opening of the Suez Canal is concerned, it remains to be seen whether Tunisia can exploit the shorter routes to its eastern markets to improve its position there.

Strategy

A major aspect of Tunisia's external trading strategy must be its renegotiation, along with the other Maghreb countries, of the association agreement with the EEC. As has been mentioned, in the introductory article, this appears to be a key conclusion. (The EEC's pre-emptive deal with Israel notwithstanding) and strong hopes for a more solid trading future are planned on the successful outcome of negotiations. Clearly the Maghreb countries stand to gain a lot from this agreement.

The chief proposals on the negotiating table fall into three broad areas. The first is economic co-operation. This includes commercial agreements, co-operation in manpower training and technical assistance, private investment and subcontracting.

The second is financial co-operation and here, Tunisia is particularly looking for a boost to investment, as well as aid on soft terms. Finally, and perhaps crucially, a free market area is envisaged, allowing unrestricted entry of industrial and agricultural products to the EEC in return for a lowering and eventual abolition, of some duties and other restrictions on EEC products into the Maghreb.

So far, negotiations have run into difficulties, primarily due to Italian opposition to the trading clauses, though senior ministers in Tunisia appear confident that a compromise can, will be found in the not too distant future. There is also, perhaps understandably, in the present recession, some disagreement over migration labour quotas though again the difficulties do not appear insurmountable.

Perhaps one of the most pleasing things about Tunisia's politically directed economy and, remains that and is likely to do so for some time to come—is that despite a healthy dynamism and high ambitions, it is not, one might suspect, an economy simply hell-bent on profitability.

The underlying aims of M. Novita's *contrôle de progrès* are essentially social. The right control exercises in monetary and fiscal policy and in other sectors of the economy, have, on the whole, prevented the sort of disaster so evident in the unrestrained economies of certain other developing countries.

There are, of course, some serious problems to be tackled which are examined in greater detail in the article on facing page. Infrastructure, unemployment, a paucity of technical expertise, a lack of capital, an unequal wage structure, are some of these.

The objectives of the "Perspective Decennale"—self-sustained growth, equality of opportunity, full employment and a complete overhaul of institutions—may not be entirely achieved, but the argument that Tunisia is well on the way to doing so is, a hard one to counter.

Alain Casson

FOREIGN EXCHANGE REVENUES

	1963-64	Percentage Distribution	1966-67	1969-70	1971-72
Olive Oil	12.5	8.4	5.3	12.7	12.7
Wine	16.9	3.8	2.3	0.8	0.8
Agri prod.	17.5	13.8	8.9	6.4	6.4
	40.9	24.0	14.5	12.9	12.9
PHOSPHATES					
Rock	8.9	9.7	5.3	2.9	2.9
Processed	4.2	4.7	4.9	3.8	3.8
Other mining	4.4	4.9	5.1	3.4	3.4
	17.5	21.3	15.3	11.1	11.1
Petroleum					
Manufactured goods	4.8	5.8	6.1	5.1	5.1
	63.2	59.5	51.9	48.9	48.9
Tourism	5.5	12.4	17.3	22.6	22.6
Workers remittances	2.9	4.1	7.3	3.2	3.2
Other invisibles	28.4	21.6	23.5	17.3	17.3
	36.8	40.5	48.1	51.7	51.7
Total	100.0	100.0	100.0	100.0	100.0

Sources: Ministère du Plan

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TUNISIA III

Tunisia is not naturally a rich country, and national planning has had to be most astute in using the generally limited resources available. A degree of luck in oil strikes, a world commodity boom and tourist growth have helped achieve a healthy rate of economic growth.

Problems of high unemployment.

Planning strategy

THE EVENTUAL success, or indeed failure, of Tunisia's economic strategy, will depend to a substantial degree on the astute deployment of its assets, which are limited in most fields and abundant in a small number of others. For, despite the present highly favourable conditions which have helped the country's economy maintain an underlying momentum (good weather, new oil strikes, a healthy tourist revenue and the manifold increase in commodity prices), Tunisia is not, in the orthodox sense, a rich country.

Even in those sectors where it does benefit from natural advantages, the difference between a good and a bad year (which in the nation's present stage of development could make all the difference to its economy) rests largely in areas outside Tunisia's direct control. The weather, world demand for olive oil, phosphate prices and even the tourist industry are all areas where growth may be devoutly wished for, but rarely manipulated and far less controlled.

Development planning in Tunisia has been a more or less coherent element of its economic strategy since the early 1960s, when, in the general context of the "Ten Year Perspectives" (Perspectives Décennales), a series of plans were implemented. After the early years, characterised by over-enthusiasm, if not ill-conceived and ill-adapted excursions into socialism based largely upon the cooperative concept, which found little favourable response in the national character, later administrations have shifted Tunisia back on to a broadly liberal economic path.

Bulwarks

In some respects, the aims of Tunisia's economic development have remained unchanged for some years. Its chief bulwarks have been, and remain, the transformation, as rapidly as possible, of the economy and the society it serves into a viable and (for the Arab world, certainly) modern instruments of progress.

The chief objectives of the Four-Year Plan 1973-76, more specifically, are high and accelerating growth, diversion of investment into more productive export-oriented industries, coping with the country's chronic unemployment problem and maintaining the present level of internal and external financial stability.

The Plan envisages a real growth in GDP of 18.8 over the three-year period with total consumption at 1968 constant prices of 7.5 per cent. a year. The Five-Year Plan, still in draft stage and due to be presented to the Council of Ministers and Parliament later this year, foresees a slightly increased growth rate.

The role of the public sector has been crucial in this overall strategy and, though of slightly less significance since the policy reorientation of 1969, it has been largely responsible in achieving the exceptional rate of gross capital formation, which in 1961 represented 17 per cent. of GDP, 27.6 per cent. in 1965 and remaining consistently over 20 per cent. since.

At the outset of the "Ten Year Perspectives" per capita GNP stood at around \$205 at current prices, rising to \$310 in 1971. In real terms this represents a growth of 2.5 per cent. a year against 4.7 per cent. in GDP which, though lower than the target figure of 6 per cent., is still respectable enough.

In addition, the healthy growth in savings to around 18 per cent. of GDP in 1971 (which reduced the proportion of investment financed by public external borrowing from 52 to 12 per cent.) the improvement in the balance of payments and the emergence of a foreign exchange surplus, meant that planning in the 'seventies could proceed on a relatively solid financial base. The Four-Year Plan soon to



The city of Tunis from the top of the Africa Hotel.

GDP BY ORIGIN PROJECTIONS (PERCENTAGE DISTRIBUTION)

	1971	1972	1973	1974	1975	1976	1977-78
Agriculture & Fisheries	17.6	19.2	15.4	15.4	15.7	15.8	3.5
Mining	1.2	1.0	1.1	1.0	0.9	0.9	0.9
Petroleum	4.6	4.3	4.6	4.6	4.1	3.6	2.9
Manufacturing	8.3	9.4	9.1	9.6	10.1	10.6	11.8
Building & Public Works	6.3	6.1	7.3	7.9	7.6	7.5	12.9
Transport & Communications	5.7	5.6	5.9	5.7	5.7	5.8	5.5
Services	28.5	28.3	28.1	28.1	28.1	28.1	7.6
Govt wages & salaries	12.9	11.8	13.1	12.5	12.4	12.2	8.2
Energy & water	1.7	1.5	1.7	1.6	1.6	1.6	1.6
GDP at factor cost	86.8	87.2	86.5	86.4	86.2	86.1	7.4

Source: Ministère du Plan.

petro-chemical development and a series of unrelated heavy industrial developments.

The problem of infrastructure is regarded by the Government as an urgent priority, largely because its solution would also

have a direct effect upon the equally vexing problem of the over-concentration of industry along the coast and in particular, in the area of Greater Tunis, to the detriment of the central and southern Tunisia.

Alain Cass

INDUSTRIAL PRODUCTION INDEX (1966-1973: 1966=100)

	1966	1967	1968	1969	1970	1971	1972	1973
Manufacturing	100	112	116	114	124	135	150	151
Food Processing	100	119	110	89	109	131	152	157
Textiles	100	138	129	142	146	143	147	158
Leather & Shoes	100	93	100	115	120	121	121	119
Mech. & Elec. Industries	100	108	107	113	127	147	184	183
Build. Materials & Glass	100	101	111	120	119	125	133	124
Chemical Industries	100	114	125	121	133	143	150	147
Petroleum Refining	100	105	122	125	131	132	136	125
Paper	100	114	117	124	116	125	128	134
Mining	100	92	112	100	111	115	120	126
Crude Oil	100	145	207	240	269	266	258	253
Phosphates	100	90	107	83	96	101	108	116
Electricity, Gas	100	110	122	128	150	167	188	207
GENERAL INDEX	100	108	115	113	123	133	145	149

Source: Institut National des Statistiques.

merge into the Five-Year Plan, the continued growth was therefore conceived in Tunisia's already advanced favourable conditions. It also social services had to face up to some serious shortcomings which were, and one which is particularly relevant both in the context of what could, if they are not overcome, Tunisia's ambitious growth targets slow what has been impressive progress.

These constraints are chiefly to be found in the relatively small contribution which industry makes to exports (manufactured goods in 1970-71 contributed less than 5 per cent. of total foreign exchange earnings against 14 per cent. for agriculture, 26.1 per cent. for mining and oil and 55 per cent. from workers' remittances (and tourism); for a country where a high literacy rate and manual skills are a feature this could certainly be improved on.

Tunisia also has a relatively underdeveloped infrastructure which itself, acts as a break on industrialisation particularly in the inland areas where investors are reluctant to commit capital. This, in turn, perpetuates a situation in which nearly two thirds of the population lives off the land in one way or another, while contributing (in 1973) less than 20 per cent. to the GDP.

A growing agricultural population contributing a declining proportion of GDP is a continuing trend confronting the Government with the choice of either increasing agriculture's share in GDP (to, say, at least 30 per cent.) or restructuring the economy, which, though more sensible in the long run, may prove extremely difficult in the short or medium term.

Despite recent attempts to revive the role of the private sector in the commanding heights (as well as some of the lower echelons) of the Tunisian economy, remain in the hands of the Government. Economic strategy, not surprisingly, has a strong political flavour. The chief aims appear to be to ensure political stability through the creation of employment and

the Four-Year Plan, and the one it precedes, are comprehensive strategies prepared for every sector of the economy (16 sectoral commissions were set up in preparation) and with the realism which characterises much of the present administration's economic policies are reviewed and, where necessary, adapted to changing conditions.

In the economic field, the overriding concern is in the non-agricultural sector, with the accent on industries, which are both highly productive and labour-intensive. Investment is projected to increase from D718m. to D1.235bn. (this figure has already been surpassed) creating 119,000 new jobs chiefly in industry and the services.

The import-substitution phase of its economy, well in hand (though not entirely overcome yet, particularly where supply to the tourist industry is concerned) the emphasis is now on export-oriented heavy industries and a major effort to maximise production in the extractive sectors. Notably, these include a complete overhaul of what has become a very unproductive phosphate industry (compared with that of Morocco and Jordan, a fifth port for industrial export at Gabes, major attention could be given, probably in the degree of pro-

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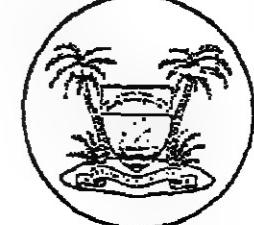
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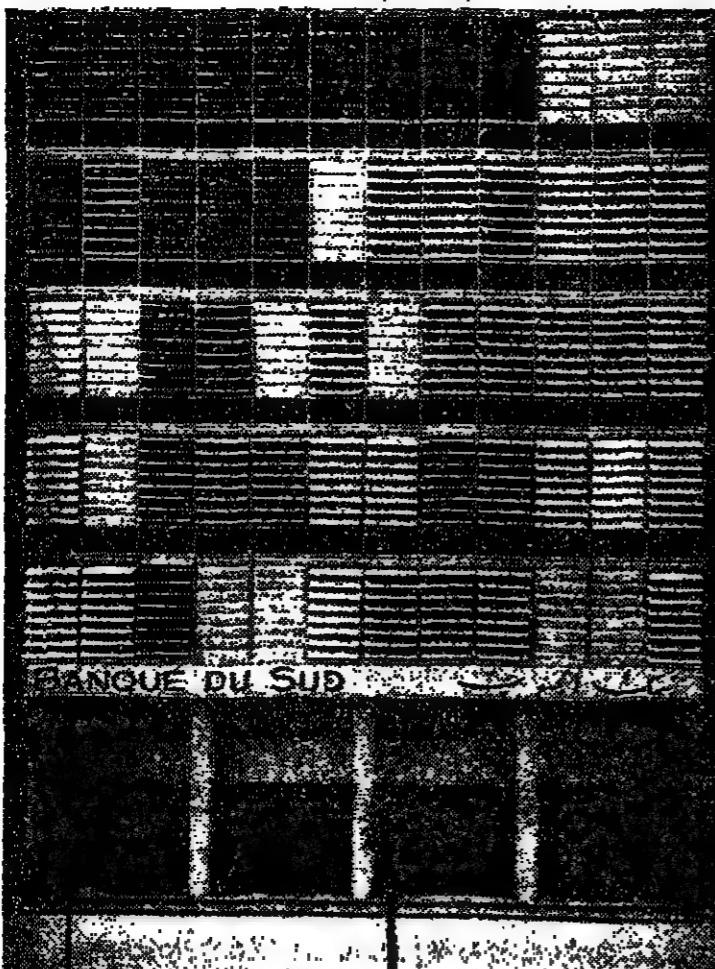


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TUNISIA IV

Tunisia's ruling and only political party, the Destourian Socialist Party, has recently gone in for some fairly hard self-criticism. While the pre-eminence of President Bourguiba is unchallenged as personification of national unity, his party is having to work hard to maintain the legitimacy of its position.

Political questions



Tunisia's President-for-life, Habib Bourguiba (left), pictured with Morocco's King Hassan at last year's Arab Summit in Rabat.

"OU VA LE Neo-Destour?" The question was recently posed in the form of a headline on the front cover of the party's weekly magazine which contained an exhaustive and, in some respects, surprisingly frank interview with M. Mohamed Sayah, director of the Destourian Socialist Party—Tunisia's ruling and only political party. The question is particularly apt one at this point in Tunisia's development.

In recent months the DSP has been subjecting itself to some fairly rigorous self-interrogation which culminated, recently, in the party cell conferences which consisted, essentially, of a series of often heated seminars in party cells across the country. These dialogues between the base and ruling élite of the party as well as all the other forms of more or less encouraged forms of soul-searching can be, and of course are, interpreted in two ways depending largely upon whether you are in or outside the relatively rigid and well-defined perimeters of the party structure.

The Party, and M. Sayah, see it as part of the natural development of a ruling party which is both a political and a party of masses. It reflects, they argue, the DSP's desire to establish truly democratic machinery which can serve both as a means of legitimate expression for the masses as well as a forum in which the ideology of the party can be periodically reshaped and refined to adapt to Tunisia's changing needs.

Conversion

The Party's opponents as well as the silent and sceptical minority within the Party itself see things somewhat differently and, not surprisingly, more cynically. They argue that the DSP's halting conversion to a form of democratic process (which, in any case, they say is merely an apology for democracy) signals two things. The first is that the Party is worried about opposition to its exclusivity and that the latest moves are designed to satisfy a growing desire for political diversification without actually meeting that desire. The second thing that these manoeuvres point to, the critics argue, is that apart from appealing to a desire for greater freedom of political expression, they also define very clearly the boundaries beyond which the Party is not willing to allow that freedom to extend.

In defence of their analysis the party's critics point to certain facts about political life in Tunisia which they claim, is as clear an indication as any that M. Sayah and his colleagues have no intention of relinquishing the reins of power which they have so assiduously and, they concede, efficiently gathered into their hands. They point to the expulsion of the so-called Liberais from the party at its last congress in Monastir last September when a revolt by a group of government ministers and party members (some for differing reasons) marked the culmination of a protracted struggle for power at the summit. They point equally to the fact that there is no choice of candidates in either municipal or national elections (there are 112 candidates for 112 seats in the legislature), that the Press is more or less controlled and that the party itself (and this is a criticism also frequently voiced by many of the party's own younger cadres) has no well-defined ideology in the way that, say, the Syrian or Iraqi Ba'ath can claim to have. Save that of staying in power indefinitely.

Lastly, and perhaps crucially, they point to the recent elevation of President Bourguiba to President for life with parallel constitutional amendments which automatically allow for the succession to pass to the prime minister who may then serve what is left of his predecessor's term before submitting himself to re-election. This, in fact, assures the smooth and uninterrupted succession of power after the departure of President Bourguiba.

M. Sayah, a very urbane, very impressive and, one suspects, very ambitious ideologue and party manager, answers these points effortlessly. Since the convulsions of the aborted union with Libya and those of the Monastir congress, the DSP has taken a much firmer hold of things and appears a good deal surer of its destiny and the extent of its support within the country.

The party derives its unique position, says M. Sayah, from its "historical legitimacy" which is personified in Bourguiba and everything he has done for Tunisia and in the struggle which the party itself

who your opponents are and where they stand in the situation in which the Neo-Destour finds itself than to have him in the heart of the struggle plotting and undermining it and, conceivably, eventually taking control by stealth. Only time will tell whether he, or those who differ from this approach in the tactics the party should adopt (though not the strategy) are right.

What is certainly true is that the Neo-Destour cannot afford to be complacent about its control of the situation. Tunisia is a country which, by choice, has close links with Europe. With so many tourists from the parliamentary democracies of the West arriving in Tunisia and Tunisians working abroad the filtering back of ideas which might erode the existing structure is not simply a theoretical possibility. The logic of the Neo-Destour's situation makes that if such a trend should manifest itself it can only do one of two things. It can either suppress it or, contented ground to it, however gradually.

In many respects Tunisians are people who have taken their political freedom, since independence, for granted but have never chosen to put it to the test. Until the departure of Bourguiba, who towers above political differences and is genuinely a focal point of unity, they are unlikely to do so, accepting that the policies implemented in his name are best and that to challenge or reject them would be, in a sense, to challenge their own originality.

But what happens after President Bourguiba and whether the assumptions made by the party and the strategy on which those assumptions are based, will remain valid and effective is a question which can only be answered when the time comes.

Alain Cass

put up to wrest the country's independence from France as well as from reactionary forces within the country. In other words the Neo-Destour and Bourguiba have earned the right to rule the country.

Other parties, of course, are not constitutionally or legally forbidden though they need the approval of the Minister of the Interior to form. In any case, there does appear to be a certain acceptance of the DSP's historical argument — at least while Bourguiba, whose presence overshadows all else, lives. Clearly the argument that other parties, other than the Communist Party which is banned, could organise and find enough popular support to survive is hypothetical until put to the test. But even the supporters of such an idea are not entirely convinced that this would be the case, at any rate to make any significant difference to the political structure of the country. One of the problems, for them, is that the Neo-Destour is now so institutionalised and so closely identified with Bourguiba that to challenge the party would be to challenge Bourguiba which, of course, is unthinkable.

The other chief area of contention is whether a single, ruling party is any longer relevant to the needs of Tunisia where the standard of education and the level of political awareness is so much higher than almost anywhere else in the Arab world. One of the most striking aspects of Tunisia is its relaxed sense of freedom which, even if superficial, is incompatible with anything remotely resembling a totalitarian state. The question is then, has Tunisia outgrown the Destourian Party and is it ready to move on to something more complex?

Though they do not put it quite so bluntly M. Sayah and senior ministers confronted with the task of implementing the political activity and political programme of the Government's ambitious economic and social policies, especially in the more politically active urban areas, conditions are very good.

Rethink

Perhaps the most striking achievement of the party has been in the field of social affairs. Its policies of equality for women, family planning, social security, health and employment have all had a marked effect on the mood of the people. The pressure for political freedom has, consequently and perhaps correspondingly, been reduced. Its historical and sentimental attraction apart, the Neo-Destour has astutely brought its rôle valuable time to adjust its role to the future.

Where there may be some doubt persists about its policies in the tactical sense. By so clearly, almost ruthlessly, defining the limits, the frontiers of the party, that the Pres. is more or less controlled and that the party itself (and this is a criticism also frequently voiced by many of the party's own younger cadres) has no well-defined ideology in the way that, say, the Syrian or Iraqi Ba'ath can claim to have. Save that of staying in power indefinitely.

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TUNISIA V

In Tunisia's Fourth Plan, the country is investing some 75 per cent. more than in the last four-year period; industrial projects will get the lion's share.

With the import-substitution phase now over, the emphasis will be on export industries.

Investment

DURING ITS Fourth Plan Tunisia is to invest D1.20bn.—almost as much as it did in the whole of the previous ten year period and 75 per cent. more than it invested under the last four year plan.

With the country's unemployment problem, the Government regards industrialisation as the key to its future development. Agriculture has been the traditional mainstay of the economy, employing about 65 per cent. of the working population. But its future job potential is limited—especially now that school leavers with relatively high educational standards and correspondingly high job expectations are pushing the unemployment total well above the official level of 15 per cent.

So that while the sum to be invested in the agricultural sector during the current Plan is some D75m. higher than in the previous Plan, the allocation of D177.7m. represents only 14.9 per cent. of total Plan investments. By far the greater share is being directed to the industrial sector and to the development of the infrastructure and services necessary to support it. As much as 53 per cent. of total investments, amounting to D633.8m., is to be invested in providing new services and infrastructure against D358.2m. during the Third Plan and 32 per cent. of the total, or D382.7m., is earmarked for industry, compared with D211.5m. in the previous Plan.

Energy

Of the total industrial allocation, D188.5m. is being invested in the energy sector, mainly to finance oil exploration and development work, as well as the expansion of refinery capacity and electricity supplies. Another D34m. is being spent on modernising the mining industry and bringing new phosphate deposits into production.

Manufacturing industry, which is given high priority under the Plan, accounts for the remaining D180m., which is more than double the amount invested under the last Plan and represents 13.3 per cent. of total Fourth Plan investments. In the past manufacturing industry in Tunisia has tended to concentrate on reducing imports by processing local raw materials (mainly foods) and generally meeting domestic demand. But the Government considers that this function has been largely fulfilled so new industries will need to be more export oriented.

By far the largest growth area is textiles—expected to average 20 per cent. a year during the current period. Consequently the largest share of manufacturing industry expenditure—about 25 per cent. or D41m.—is being utilised here. This industry is now regarded as the second most important manufacturing industry in Tunisia after food processing, and is expected to produce export earnings of some D26m. in 1976.

Fond processing, meanwhile, which includes forestry, fisheries and livestock, receives an investment of D23.9m. under the Plan.

Another sector which warrants a sizeable investment—D33.6m. against D7.6m. under the previous Plan—are the metallurgical, mechanical and electrical industries. These are especially encouraged since they create employment which, like textile manufacturing, is particularly suitable for the Tunisian workforce, adept at light intricate work. The sector includes the El Foulad steel works and the car assembly plants of Sita, Simca and Soromo as, well as the small electrical and mechanical industries.

Fertilisers

The chemicals industry, another growth sector for which the proposed project—Tunisia is Tunisia has ambitious plans, promoting a policy of decentralisation and regionalisation—is expected to earn value equilibrium.

But before a foreign investor is allowed to set up production for the domestic market the Government has first to be convinced that the local market can support such an industry—in many cases the domestic market is already saturated. Tunisia is quite definitely not seeking haphazard foreign investment purely to bump up its industrial sector. The creation of jobs, coupled with the introduction of new industries and the technology and training opportunities which come with them are the main criteria.

It has adopted its enlightened approach to foreign investment in the knowledge that this is the only realistic way in which it can stimulate the investment it needs to establish a sound industrial base to secure future employment for its people. It regards the availability of

annual growth rate of 9.6 per cent. and a contribution of 15.3 per cent. to the rise in Gross Industrial Product. In addition this sector is expected to account for 30.9 per cent. of exports and make a 33 per cent. contribution to their increase.

A particular departure in financing of the current Plan is that there will be less dependence on foreign aid. The aim is to bring external financing down to some 24 per cent. compared with 40 per cent. under the previous Plan. Among aid and loans already committed is \$46m. from Saudi Arabia, the UAE, Qatar and the Abu Dhabi Fund for Arab Economic Development, as well as \$15m. from the UN Development Programme.

National savings will have to play a much larger role—the Plan stipulates that savings must be capable of financing about 75 per cent. of the necessary investments. There are signs that they are already doing so. A short while ago the Prime Minister, Mr. Hedi Nouira, announced that national savings had increased by some 300 per cent. with the result that last year they accounted for 82 per cent. of total Tunisian investment.

At the same time the Plan places far greater emphasis on the private sector which is scheduled to provide 41 per cent. of the necessary finance, against a little over 33 per cent. during the previous Plan. This year, for instance, private sources are expected to account for 45 per cent. of the total invested in local industry and to represent 25 per cent. of GNP—a rise of 2 per cent. on the 1974 level.

And while Tunisia may be anxious to lessen its dependence on outside financing in the form of loans and aid, it is doing everything it can to attract private sources of foreign investment, especially in the export-oriented manufacturing sector. Tunisia asserts that as far as foreign ownership in the manufacturing sector is concerned, any permutation is possible—from joint ventures right through to 100 per cent. foreign ownership.

With foreign investors very much in mind, it passed the somewhat nondescriptly named April 1972 law which offers companies setting up in Tunisia solely for export generous fiscal incentives. This law allows such companies exemption from income and other taxes, along with free entry of equipment, spare parts, raw materials and any other goods necessary to their export business.

Repatriation

Most of these concessions are available for a 20-year period, though full freedom from profits tax is only allowed in the first 10 years after which profits are subject to a reduced tax rate of 10 per cent. over the following 10 years. Added to this there are no restrictions on repatriation of earnings generated outside Tunisia.

Similar, though less generous concessions are available to companies producing partly for export, while foreign companies which opt for a joint venture with a Tunisian partner are also eligible for tax and other financial privileges.

For those which are more interested in gaining access to the domestic market financial incentives are covered by Law 74-74 (passed on August 3, 1974). This law provides approval procedures for any company wishing to set up in Tunisia and offers varying financial concessions such as tax exemption linked to the number of jobs created and location of the plant.

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S.I.T.E.P.—a Company, partly state-owned, with a capital of 5,000,000 Dinars, was founded on 24th January, 1961, with the main objective of research and prospecting; then, in the event of positive results, exploitation of the oil deposits.

Exploitation of the El Borma Field
Quality: 43 "API"

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GROUPE CHIMIQUE TUNISIEN**S.I.A.P.E. — I.C.M. — G.C.T. — GRANUPHOS**

Offices: Tunis, 22, rue Pierre-de-Coubertin

Telephone: 249-600

Telegraphic Address: CHIMAG-Tunis

Telex: 12.398-CHIM-Tunis

S.I.A.P.E.
Société Industrielle d'Acide Phosphorique et d'Engrais
Capital : 1,850,000 D.T.
Product : Triple superphosphate concentrated to 45% of P₂O₅.
Production Capacity : 300,000 tonnes per annum sold on the domestic and international markets.
Factory : at Sfax.

I.C.M.
Industries Chimiques Maghrébines
Capital : 6,000,000 D.T.
Product : Phosphoric Acid concentrated to 54% of P₂O₅.
Production Capacity : 250,000 tonnes per annum of P₂O₅ destined for the home and export markets.
Factory : at Gabès.

G.C.T.
Gabès Chimie Transport
Capital : 250,000 D.T.
Object : A shipping company established jointly by I.C.M., C.T.N. and Gaocean in order to ensure the transport of phosphoric acid produced by the factory at Gabès.
Fleet : Two phosphoric acid carriers: The "Gabès" of 4,500 d.w.t. The "Gafsa" of 10,500 d.w.t.

GRANUPHOS
Capital : 520,000 D.T.
Object : The export of :— Ground phosphate powder. Production Capacity : 80,000 tonnes p.a.— Ground phosphate granules. Production Capacity : 100,000 tonnes p.a. to commence during 1975.
Factory : at Sfax.

Mining is a well-established industry in Tunisia, but has been allowed to become rather run-down with mines inefficient and ill-equipped. The recent increase in world phosphate prices should however do much to revitalise this sector. Overseas earnings from phosphates multiplied last year and there are plans to boost output.

Boost for phosphates

JUST AS higher world prices and phosphates in particular, pushed oil to the forefront of has been one of the backbones of the Tunisian economy, so of the economy, since the late 1960s the mines, have been helping the minerals industry operated largely at a loss.

to regain its traditional role as a major export earner—and, outmoded equipment as well as extensive damage to mine and rail installations which occurred in the 1960s.

Compared with oil, mining is the further drawback that Tunisia though this, ironically, is the well-established industry in the south, where reserves are put at a handicap. For while world low grade—ranging from 65 to 72 per cent, which made phosphate prices remained 68 per cent, against Morocco's depressed, Tunisia's mining industry was allowed to run down so that existing mines are largely outmoded and ill-equipped. With her mines operating well below peak efficiency Tunisia was thus unable to take full advantage of Morocco's moves in pushing up sharply the phosphate prices—from \$15 a ton to \$36.70 a ton in less than 18 months.

Even so export earnings from phosphate rock quadrupled last year to \$46.4m. (\$9.3m. against \$11.1m. in 1973) and an average of \$14.4m. a year during the Third Plan. At the same time export earnings from phosphate products tripled to \$49.45m., although the quantities exported were in both cases only marginally above the 1973 level. Thus although Tunisian phosphate production—3.2m. tonnes last year and exports of 2.6m. tonnes—pales into insignificance alongside that of its Moroccan neighbour with an output of 20m. tonnes, it still represents a major source of foreign exchange earnings.

Phosphate production, not surprisingly perhaps, is controlled by the Government through the initial motivation for this was apparently more one of job preservation than any of which are now being modernised. For a fifth mine is at Kalaa Djerda but is likely to be re-

opened by a new mine complex currently under study at Sidi Béchir. The Moulares mine is already being replaced by a new mine in the M'rata uplands of Gafsa which has been built and equipped by Romanians. It produces around 1m. tonnes of phosphate entirely for export—about double the output of the former Moulares mine.

placed by a new mine complex set up 25 years ago, is still mined phosphate and natural earnings, are having to compete with the new finds in tain export levels.

According to the Paris-based International Phosphate Research Organisation, the Fourth Plan foresees an increase of 1,000 tonnes a day in phosphate with a combined output of around 450,000 tonnes a year. There would be two units research organisation, Dynapex, producing 1,000 tonnes a day, one unit based fertiliser prices on tonnes a year and one of 15,000 producing 910,000 tonnes a day already down 33 per cent.

The complex is planned to consist of three units: a chalcocite unit of 1,000 tonnes a day, a binary NP further 10 per cent over the coming months. Prices for 16-43-0 grades such as superphosphate, magnesia, ammonia, and ammonium sulphate will be expected to decline.

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TUNISIA VII

Apart from years of war, pestilence and flood, Tunisia has enjoyed a remarkable growth in its tourist industry since 1961. As well as having a beautiful country with a rich cultural heritage, the industry has been generally well managed.

Tourism growth

TUNISIA'S tourist industry is a young and vigorous one. Endowed with many of the qualities which, increasingly, appear to determine the demand in what has become a fiercely and for some a fatally competitive industry, Tunisia has capitalised with considerable success on recent world trends.

Growth rates have been remarkable by world standards. In the years from 1961-1973 total arrivals grew at a rate of nearly 30 per cent a year while visitor bednights averaged an annual growth rate of 32 per cent; which, compared with the rest of the Mediterranean, is three times as high. This cumulative growth is all the more remarkable for the fact that, in between the crests, the growth curve has manifested some steep declines: due, largely, to exceptional factors such as the 1967 and 1973 Middle East wars, general political uncertainty and the floods and the cholera epidemic of 1969 and 1970.

Self-critical

There are several reasons for this growth—partly natural, partly managerial. Tunisia is a place of great beauty. Its coastline has some fine beaches while, in the south of the country, the desert and its oases are equally important though not quite so well exploited attraction. Tunisia also has a rich cultural heritage which can compete effectively with those of its immediate neighbours. Equally the industry is generally well managed by a new administration which appears, on the one hand, to have judged the nature of its market reasonably well and, on the other, is now sufficiently self-critical to adapt its investment and development programmes to the needs of a changing market.

A high level of administrative expertise is vital in this industry, which accounts for the largest single contribution to Tunisia's foreign exchange earnings. Having risen from D1.5m. in 1961 to D67.4m. in 1973 (contributing some 21.4 per cent to foreign exchange earnings in that year) they stood at D80.87m. (\$183.6m.) in 1974 which, after a bad year in 1973, was essentially a year of stabilisation in preparation for the current year when receipts are expected to rise by some 20 per cent.

These, however, are gross receipts which do not take into account the considerable volume of imported goods, services and capital equipment required for maintenance and upkeep. Net receipts in 1972 were estimated to have risen to 70 per cent of the gross (DM67.4m.) from less than 50 per cent ten years ago. One of the chief problems with a high preponderance of which makes tourism such an operator, charter flight



Part of Tunis' Souk.

expensive industry to run is the trade... This is an important around 50,000 in 1973) has been serious lack of the necessary statistic because it has determined that other holiday attractions infrastructure and support services. But this is steadily improving and, given the right conditions, there is a possibility by the nature of the one hand, and that the growth holidays offered in Tunisia, in the necessary skilled manpower. These tend to be middle-range power and infrastructural services, which are middle-income Europeans who, Fifth Plan to remedy an looking for the sun, would find anomaly which may have been the traditional winter resorts of the Caribbean and East Africa recent downturn in tourism prohibitively expensive.

One of the results of the significant increase both in tourist arrivals and the number of du Thermalism (ONTT), which has been constructed (the number of beds Ministry of the Economy, rust from 4,000 in 1961 to several new projects aimed at

Anomaly

Projected Government investments in the Fourth Plan were D48.8m. (with D8.4m. for leisure infrastructure, D4.7m. for promotion and marketing and D28m. for infrastructure as a whole), though this is likely to be exceeded following the reassessment of its general strategy.

A major effort is also going to be made aimed at foreign capital markets to provide capital both for continued hotel investment (the larger requirements of which are beyond the local market, partly, in fact, due to the relatively uncompetitive terms of credit offered) and to give the necessary financial impetus to the infrastructural programme, whose implementation should assure Tunisian tourism of continued growth and the Tunisian exchequer of a growing supply of valuable hard currency.

Alain Cass

Oil

CONTINUED FROM PREVIOUS PAGE

Tunisia's only refinery at of styrene. This will be further processed into polystyrene to Bizieta for refining to supply the domestic market—refining form with ethylene the core of Snam Projected in the early 1960s, has a throughput of 1.2m. tonnes, processing some grades imported from the Middle East as well as domestic crude. It is operated by Société Tunisie Italiane de Raffinerie (SITR). Under the Fourth Plan its capacity is to be nearly doubled, while a second refinery with an eventual capacity of 10m. to 12m. tonnes a year is to be built at Gabes. It is expected to come on stream in 1978 when it will probably have a capacity of 3m. tonnes a year.

Most of the financing for this project, estimated at D70m., is to be provided by the Government which has set aside D18.5m. from its total Plan allocation for the industry of D382.7m. (against D211m. in the Third Plan) for development of the energy sector. Some D64.1m. of this is to be spent on exploration, D22.7m. on developing existing wells and D23.5m. on expanding refining capacity.

The Gabes refinery is intended eventually to form the basis of a new D100m. petrochemical complex. By 1978/79 Tunisia expects to have some 1m. tonnes of naphtha available from Gabes. This will be processed in a steam cracking unit to be built at the Gabes complex to produce 300,000 tonnes a year of ethylene, together with propylene, butane and other by-products.

Some 145,000 tonnes of ethylene will then be used as a feedstock for a proposed against Tunisia's former oil reserves of around 8bn. cubic metres. The remaining ethylene produced will be exported.

The second stage of the chemicals complex will comprise a pyrolysis unit to produce benzene which, with ethylene, will be used for the production discovered at the Douleb oil

field by SEREPT, this time in partnership with Aquitaine Tunisie. El Borsa also contains gas and a project is now under way to raise the capacity of the gas pipe running to the Gabes complex to 300m. cubic metres a year.

The offshore oil fields also contain significant quantities of gas but the Isid field has yet to be brought into production, while at Ashtar some 200m. cubic metres of gas is burnt off each year. For the moment it is not economically feasible to bring the gas onshore and this will be the main problem in developing the much larger new fields. In the first place development work will cost two to four times as much as it would onshore, while a gas pipeline or other means of transport will have to be constructed from scratch.

But if the new fields come up to expectations it seems almost certain that they will be developed. The main attraction will be the energy available for the new industries which Tunisia is so anxious to set up—the gas would be particularly valuable for sponge iron projects such as the \$85m. venture to be undertaken at Gabes in a three-way deal involving West German, Japanese and Brazilian interests. The gas would also provide a domestic source of ammonia for the compound fertiliser production which Tunisia aims to enter. Mr. Lasram considers that the new gas deposits are large enough to meet domestic needs for at least 20 years.

The new fields would supplement the supplies which Tunisia has secured starting in 1978 from the pipeline crossing Tunisia carrying Algerian gas to Italy. These supplies could, however, be in jeopardy, or at least subject to delay, because Algeria and Italy are in dispute over the price to be paid for the gas—so that Tunisia's new offshore finds may well prove more vital than first supposed.

Margaret Hughes

SOGITEX

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Weaving	1,350 operators	35,000,000 metres	Unbleached cloth, cotton, wool, fibres, rayon, synthetic and blended.
Finished materials	bleaching dyeing printing stiffening	35,000,000 metres	Bleached cloth, various dyed and printed cloth.
Ready-made clothing	440 machines	1,500,000 articles	Shirts, trousers, overalls and sports tracksuits.

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TEL: 04 21 516

TELEX: 40 819

PORT OF LOADING—LA GOULETTE:

STEPHOS DOCK

TEL: 275 794

CABLES: STEPHOS LA GOULETTE

TUNISIA'S TOURISM GROWTH

	1962	1972	1973	1974
Hotels	74	241	254	260
Beds	4,077	47,934	54,617	56,292
Direct employment	1,630	19,130	21,847	22,517
Visitors	52,752	760,550	721,897	716,003
Bednights	395,777	6,8m.	5,6m.	5,6m.
Average stay (days)	7.5	8.7	8.1	7.9
Receipts	D1.98m.	D46.4m.	D72.4m.	D80.3m.

SOCETE TUNISIENNE D'EXPANSION MINIERE

SOTEMI SA

Capital: 5,250,000.00 Dollars US

9, Rue Danton—TUNIS—Tunisia

Telegrams: SOTEMINE—TUNIS

Telex: SOTEMI 12,442—TUNIS

FLUORSPAR: Acid Grade

LEAD AND ZINC: Concentrates

BARYTE: Ground drilling mud grade,
specific gravity 4.20-4.30

QUICKSILVER: 99.99%



LA COMPAGNIE TUNISIENNE DE NAVIGATION

Head Office: 5, Avenue Dag-Hammarskjöld -
TUNIS

Telex: 12.475/479 COTUNAV TUNIS

Regular sailings between Germany, Holland, Belgium, North Atlantic and Mediterranean French ports, the Italian Ligurian ports and Tunisia.

**Maghreb service to Morocco and Algeria
Chartering - Inshore coasting - Tramping**

The company is currently preparing a plan to renew and enlarge its fleet and intends to open new services with other countries shortly.

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HAMBURG: Nah-Ost Schiffahrtsagentur GmbH

ROTTERDAM: Wambers et Zoon, CVOA

ANTWERP: Furness Shipping Agency et Cie

DUNKIRK: Jokeison et Handsaem

ROUEN: C/O Worms et Cie Maritime et Charbonnière

BREST: Worms et Cie Maritime et Charbonnière

LIVORNO:

Aldo Spadoni

Associates:

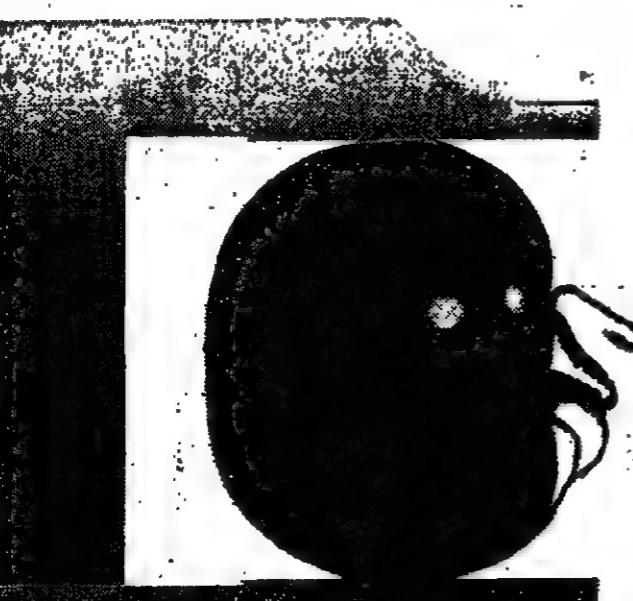
**LA SOCIETE DE NAVIGATION MARITIME
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Telex: 657-322

LA SOCIETE MARITIME DE LA SKHIRA

Telex: 505 Somaskhr SFAX

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TUNISIA VIII

Long periods of drought are a constant headache for the farmer but in a country where half the population lives on the land there is concern that agriculture's contribution to the national economy has fallen below 20 per cent. and new efforts are being made to boost productivity.

Agriculture



Dams

Following the recent visit to Tunisia of Mr. Alexei Kosygin, the Soviet Prime Minister, two new dams are planned, with Russian assistance and finance and a third financed by the Abu Dhabi Fund for Arab Economic Development.

One of the chief problems, however, which the Tunisian Government is urgently trying to sort out is the continuing and, for a country with relatively limited agricultural resources, very serious under-utilisation of water resources and therefore of land.

These areas produce virtually all the country's citrus fruits and grapes, two-thirds of its cereals, two-thirds of vegetables and milk and over a third of the livestock and fish. The central area, roughly situated between the Dorsal Chain and the Gafsa range to the south has an average rainfall of around half that of the more fertile areas to the north and supports mostly the raising of sheep and goats, though not on a very intensive level, and tree crops mostly in the form of olives. There is also some cereal production. Farther south, in the third of the three broad areas, where rainfall is below 200 mm., vegetables, date palms and olives are grown in oases. Here again the margin between success and failure depends on as little as a few millimetres of rain.

The problem of rain is of course central and the Tunisian farmer, for many years neglected by the central government, has tried to overcome it through a primitive and only half-effective system of irrigation channels and individual wells. The point is that too much water can be as bad as too little. A bad flood or a series of rainstorms at harvest time can prove disastrous and the problem of soil erosion, for example, is as serious as that of water conservation.

Irrigation

Over the last decade or so significant amounts of money have been poured into irrigation works though, for the time being, the total irrigated acreage is limited to no more than 80,000 ha. out of an overall acreage under cultivation of 424,000 ha.

Recent studies suggest that the maximum area which could be converted to irrigated land is up to 200,000 ha. most of which is located in the northern area of the country. In fact, since independence the volume of irrigable land has only increased by 45,000 ha. though much of this extra acreage is technically irrigable thanks only to large and costly hydraulic investment by the Government. In 1975 some D10m. has been set aside for further such projects. In the nine years to 1971 expenditure was D80.6m., of which three quarters was by the State, D15.7m. from foreign aid and D2.1m. from private sources. In all, irrigation has absorbed over 40 per cent of public investment in agriculture.

Other possible sources of water are the underground resources of the Sahara, and it is contended that a further 10,000 ha. could be exploited if those year's remarkable achieve-

ments is that Tunisia was able to grow enough wheat to satisfy all its home demand.

The actual value of exports from 1960 to the start of the seventies has not increased and hovers at around D30m. a year while the value of imports has risen from an average of D21.7m. in 1960-62 to an average of D44.5m. from 1969-71. Clearly both are determined largely by the level of home consumption and since the major part of food consumption is locally-produced these levels may not necessarily change drastically. This may not be a bad thing in the long run, especially as agricultural exports, though a small proportion of overall production, form a significant part of total export and foreign exchange earnings.

The Fourth Plan aims at increased agricultural productivity. There is clearly a need for greater investment in extension services and infrastructural development. The training of farmers and advisers has been impressive and there are 700 agricultural graduates, some 5,000 qualified technicians and at least a further 30,000 who have received vocational training. But further significant improvements in this area must accompany any planned higher investment, if the higher growth rates which the administration is aiming at are to be achieved.

Alain Cass

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	AGRICULTURAL IMPORTS AND EXPORTS BY SECTOR					
	Exports 1968-69 m.D. %	1969-70 m.D. %	Imports 1968-69 m.D. %	1969-70 m.D. %	Imports 1969-70 m.D. %	
Livestock products	0.9	3	2.1	6	1.6	7
Fish	0.3	1	0.9	3	—	0.1
Cereals	1.3	11	0.5	1	9.8	45
Fruits/vegetables	1.3	11	6.6	20	1.2	6
Edible oils/fats	9.6	31	14.7	46	0.3	1
Wine	7.7	25	3.1	9	—	—
Food industry	3.2	10	2.8	11	0.8	4
Sugar	—	—	—	—	3.1	12
Spices, coffee, etc.	—	—	—	—	2.5	12
Other	2.5	8	1.9	6	2.4	11
Total	36.2	100	32.6	100	21.7	100
* Annual Averages						

Source: Ministry of Planning

Why the record industry is in a spin

BY ANTONY THORNCROFT

THE RECORD industry lives off retaining its independence but illusions. Experience suggests now licensing its records to Phonogram, the Philips-Siemens subsidiary released in the past week could, against all reason, become a hit. Look at the current best seller, *Whispering Grass*, an old wartime song revived by EMI and sung by television personalities Windsor Davies and Don Estelle. It is well on its way to selling 300,000 copies and considerably improving the profitability of the largest record company in the country.

But another illusion—that the record industry is recession proof—is being sorely tested. Just as in the austere 1940s public flocked to the cinema the best-seller charts for six weeks, the longest time that any record has held that position for four years. In all it is approaching sales of \$800,000, a very high figure these days for a number one (you can reach the top and sell less than 250,000 copies). But commercially more satisfying for the group's record label, Bell, is that fact that their album has sold 300,000 copies in two months.

Merchandise

This kind of off-take is reminiscent of the Beatles and there are optimists in the record industry that see the Bay City Rollers giving records sales generally the kind of fillip that the Beatles set in motion. In one area—merchandise, from scarves to trousers, sponsored by the group—the Rollers have stimulated sales barely scratched by the Beatles.

Artists Services, the company that has the franchise for the Bay City Rollers (as well as the Osmonds), expects to sell £1m. worth of bits and pieces this year, with the group taking a 5 per cent. royalty.

Letters to the Editor

Attract foreign investment

From the Group Economist, Ocean Transport and Trading, India Buildings, Liverpool.

Unparalleled opportunity

From Mr. P. Franklin.

Sir.—The National Institute has forecast a continuing decline for sterling and there are journalists who advocate devaluation as part of a positive policy to encourage exports. But let us consider what the effect of a lower-value pound would be on a workable counter-inflation policy and the more general need to strengthen the British economy.

Inflation is caused by an excess of demand over supply. The cure is twofold: to reduce demand by incomes policy and public expenditure cuts, and to raise supply by greater use of existing resources and a policy which encourages investment. The latter is the key to any medium-term policy of "regenerating" British industry. But investment must be financed by real savings.

To the extent that devaluation reduces real incomes through the higher cost of imported goods savings will decline if people attempt to maintain real spending; this declining level of savings will finance an even lower level of real investment to the extent that investment goods must be imported. (This leaves aside the possibility that domestic prices and money incomes will rise to the extent of the devaluation, since this would simply frustrate the purpose of devaluing and lead to accelerating inflation.)

Shortfall

The ensuing shortfall in real savings relative to investment has to be made up by borrowing abroad. But the saving and eventual repayment of international debt and profits remitted for foreign investment in this country claim an increasing share of our domestic output to the extent that the pound's values relative to the foreign currencies in which the borrowing is incurred.

We need more foreign investment anyway, since with present growth rates our economy simply does not generate sufficient savings to finance the levels of investment achieved in some of our EEC partners. One of the mistakes of post-war policy, it seems to me, has been too much emphasis on balancing the current account. But we can't have both export and investment increases and an improving balance of trade to the levels deemed desirable for each of these things seen in isolation.

Medium-term policy should be directed towards encouraging industrial investment not just by domestic enterprise but by as many foreign companies as we can attract here. (There may be undesirable features of multi-national business which we should try to put right but let us stop castigating it per se.) The resultant inflow of foreign capital will help to strengthen the pound and raise living standards in this country.

Short term policy should be directed to marshalling all the international funds possible to support the pound at its present level. If sterling continues to slide, it could develop into an uncontrollable plunge into nothingness. Even controlled devaluation seems likely to regenerate import cost pressures to the point where income restraint is impossible. We won't get to the stage of hyperinflation. But we could get so close to it next year that the rescue processes would involve a total alteration of our domestic policies by a



The Bay City Rollers (left) represent a ray of hope for the industry with almost 800,000 copies of their current single sold. Elton John (right) makes sure most of his earnings stay abroad, costing the U.K. well over £1m. this year alone.



feature of the Bay City Rollers common practice is a licensing deal with companies like Tamla-Motown, MCA, Elektra-Asylum and RAK. Only a production company and is responsible for the manufacture, distribution and selling.

Licensing deals with companies like Tamla-Motown, MCA, Elektra-Asylum and RAK are very important to EMI, but it has just lost the Tamla business and Elektra-Asylum comes up for renewal later in the year. Fortunately for EMI it still has Paul McCartney under contract and a new McCartney album is coming out soon, with an initial order of 150,000. McCartney probably does not produce much profit these days for EMI, but he is a useful heavyweight, with which to persuade retailers to stock extra EMI records.

So, for a price, EMI presses records and distributes them for Bell, but the smaller operation creates the sounds and looks after the actual selling. This removes EMI from any risk but it does mean that its panes will continue to rely on EMI records.

Perhaps the most distinctive profit margin is less. Another outsiders for material at least

in the pop field they may let EMI look after around actually strengthen their 40 per cent.

Island has not suffered as much as some other companies this year because most of its turnover comes from albums, and it is the singles market that has fallen away most sharply. On the surface a downturn in single sales is not too worrying, since in value terms they are worth not much more than £20m. a year against albums £100m. But a hit single for an artist is the quickest way to stimulate album sales, and seeing records high in the charts spreads a warm glow throughout a record company. That is why CBS and Polydor, well-established album companies, have put considerable effort into this industry to spread your options. Island, for example, could now look after all its own distribution but it prefers to

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per cent of its income is from cess are not everyone's problem; overseas. This is the other great rule for record success. A company can produce a string of best selling singles in its first year of existence and yet stay worried because it has yet to break artists overseas. As Robin Britten, manager of the Hollies, who has just set up his own record label, RCB, points out the price differentials mean that every record sold in West Germany is worth two and a half times the same record sold here.

Dick James of DJM, who has Elton John, the world's best selling album artist on his books, reckons he has got it about right with 85 per cent of his revenue found abroad.

In the U.S. the latest Elton John album had orders for 1m. copies before it reached 1m. retailer has weakened, and organisations like Record Merchandisers, owned by EMI, Decca, Pye, and the Polydor group, have succeeded in introducing albums into a much broader range of outlets on a sale and return basis. Now groups like Boots, W. H. Smith and F. W. Woolworth account for over half the record retailing business and, by indulging in a competitive price war, have helped to maintain the overall level of record sales above that of last year.

Unfortunately, little of this money will come back to the U.K. For many artists, song writers, and even record producers are being driven abroad by Britain's very high taxation levels. Elton John has not yet completely abandoned the U.K., as the Rolling Stones have, but he makes sure that most of his earnings accrue overseas. The British Government must lose no harm to work harder for its money, and it is about time the pendulum swings back slightly in favour of the big international companies, who see the U.K. as the spawning ground for talent but appreciate that most of the profits lie in North America, which accounts for well over 50 per cent of world record sales. Some of the independents will have to be lucky or efficient to survive, but they will keep going in the awareness that, in this unpredictable business, they might have under contract the group that will take over from the Bay City Rollers in the affections of the country's teenage girls in 1976.

Price war

Other companies have started to wheel and deal with the retail trade. The control of the record industry through the hiccups in sales. Some of the independent over-extended themselves, especially in establishing large sales forces. Like Charisma, they will retrench and lean on the majors again.

And yet Island, probably the most successful of the independents, is pushing ahead with its final step towards autonomy. Later this month it starts pressing its own records. It will have an eventual capacity of 1.5m. albums a year but will still place orders elsewhere, and experts other record companies to use its facilities. For one of the secrets of success in this industry is to spread your

options. Island, for example, could now look after all its own distribution but it prefers to

To-day's Events

GENERAL
EEC Finance Ministers Council meeting takes place in Luxembourg. Ministers also attend annual meeting of Board of Governors of European Investment Bank.

National and Local-Government Officers Association representatives meet employers for pay talks.

Antisocial Union of Engineers-Wokers national conference begins, Hastings.

Union of Post Office Workers give evidence to Select Committee on Nationalised Industries, House of Commons.

Mr. John Antier, president and chairman of National Savings Committee, speaks at City of London Savings Committee reception, Mansion House, London.

Queen and Duke of Edinburgh attend service for Order of the Garter, St. George's Chapel, Windsor.

ARTS

House of Lords: Policyholders Protection Bill, report. Members of London Philharmonia and London Symphony Orchestras give short late-night concert to inaugurate Henry Wood Hall, Southwark, London.

COMPANY RESULTS
Bulmer and Lumb (Holdings) (full year).

Comet Radiotelevision Services (half year).

COMPANY MEETINGS
See Week's Financial Diary on page 9.

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COMPANY NEWS + COMMENT

Ever Ready looks overseas for growth

UNTIL Government policies change and union attitudes alter, real growth in the U.K. operations of Ever Ready Company (Holdings) is likely to be limited, declares the chairman, Mr. L. W. Orchard.

But overseas the picture is better, and the company is currently extending and strengthening its overseas marketing and selling operations in carefully selected areas.

Capital commitments have been trimmed in line with current requirements and show a diminution from £4.8m. to £2.99m. at March 1, 1975. By the end of the current year they will show a further fall, says Mr. Orchard.

As reported on May 21 with details of an £8.7m. rights issue, group pre-tax profit for the past year decreased marginally from £12.95m. to £12.55m., the dividend is raised from 2.25p to 3.14p net, and maintenance of that rate on the capital as increased by the issue is forecast for the current year.

Although sales generated by the home companies increased from £51.4m. to £61m., profits from them decreased from £7.5m. to £5.6m.—a "totally inadequate" profit of 9.2 per cent. says Mr. Orchard.

Overseas operations helped to raise the balance with profits up from £3.35m. to £4.1m. or 14.2 per cent.

The chairman emphasises that, with the current rate of inflation in the British economy, to maintain the future long-term viability of the business, a profit on sales of at least 20 per cent. is needed, and a return on capital employed on the level of 12.5 per cent. At present the company is not permitted to achieve those targets in the U.K. due primarily to price control restrictions.

Exports from the U.K. increased from £18.8m. to £22.8m., but a cost level has now been reached where further expansion in export business generally is in jeopardy.

"There are signs that we are beginning to price ourselves out of some of our traditional markets," the chairman adds.

An analysis of turnover in percentage and trading profit of £11.47m. shows butters and allied activities—U.K. 40 and £1.22m.; rest of Europe 27 and £3.28m.; Africa 14 and £2.53m. Other U.K. activities contributed 19 and £1.31m.

Two directors waived remuneration totalling £41,357 (£35,826).

Meeting, Whetstone, N., July 16.

comment

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HIGHLIGHTS

Lex comments on the 18 months results from Norcros, contrasting the profits growth with the increase in gearing. Nurdin and Peacock has announced a 1-for-5 rights issue to raise £1.4m. and the Ever Ready report and accounts is hopeful that overseas business will continue to offset weakening profit margins in the U.K. This week should see the results of a number of major companies including Tate and Lyle and brewers Whitbread and Arthur Guinness.

markets and the cutback in capital spending, the total scene does not look encouraging for the £1.7m. rights issue. But this is needed to reduce bank borrowings and the card up the group's sleeve is the strength of the current dividend cover which (barring accidentals) should enable it to maintain the same rate on the increased share capital.

B. S. & W. Whiteley cautious

IT IS not easy to make any meaningful forecast of trading results of B. S. & W. Whiteley in the current year due to many factors outside the directors' control. Exports last year expanded from £17.5m. to £26.6m.—a "totally inadequate" profit of 9.2 per cent. says Mr. Orchard.

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improvements are still being made by the chemical division.

"While the fortunes of our company are closely linked with the level of activity in the U.K. building and construction industries, our efforts in recent years to reduce this dependency continue," he says.

On the year under review Mr. Fisher explains that overall it was a period in which the group attempted to consolidate its operations, strengthen its controls and be in a position to take advantage of future improvements in the economic situation.

As reported on May 8 profit before tax fell from £307,000 to £293,000 in 1974. The dividend is raised from 1.268p to a maximum permitted 1.23p net.

Accounts adjusted for inflation show profit before tax at £324,000 (£383,000) on a CPP basis, earnings per 10p share at 3.31p (3.32p) on a CPP basis compared with 2.9p (3.14p), historical and convertible dividends at 27.8p (25.6p) and 17.8p (15.7p).

The chairman points out that while 1974 profits on a CPP basis also show a reduction compared with 1973 they again show that profits adjusted for inflation are higher than profits computed on an historical basis. This demonstrates the success with which the group has protected itself against inflation.

Meeting, Great Eastern Hotel, E.C., on July 9 at 12.30 p.m.

Long-term confidence at Weeks

ALTHOUGH the directors of Weeks Associates feel it would be wise to be cautious regarding the company's immediate future, their confidence in the medium and long term "is still as high as ever," says the chairman, Mr. D. H. Weeks.

Benefits of the investment and effort which has been put in over the past two years have yet to be realised, he adds.

For the future the company must increasingly look overseas, it is well placed to realise the potential which exists and to commit to seize opportunities worldwide. Exports last year expanded from £17.5m. to £26.6m.—a "totally inadequate" profit of 9.2 per cent. says Mr. Orchard.

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For the future the company must increasingly look overseas, it is well placed to realise the potential which exists and to commit to seize opportunities worldwide. Exports last year expanded from £17.5m. to £26.6m.—a "totally inadequate" profit of 9.2 per cent. says Mr. Orchard.

Overseas operations helped to raise the balance with profits up from £3.35m. to £4.1m. or 14.2 per cent.

The chairman emphasises that, with the current rate of inflation in the British economy, to maintain the future long-term viability of the business, a profit on sales of at least 20 per cent. is needed, and a return on capital employed on the level of 12.5 per cent.

Exports from the U.K. increased from £18.8m. to £22.8m., but a cost level has now been reached where further expansion in export business generally is in jeopardy.

"There are signs that we are beginning to price ourselves out of some of our traditional markets," the chairman adds.

An analysis of turnover in percentage and trading profit of £11.47m. shows butters and allied activities—U.K. 40 and £1.22m.; rest of Europe 27 and £3.28m.; Africa 14 and £2.53m. Other U.K. activities contributed 19 and £1.31m.

Two directors waived remuneration totalling £41,357 (£35,826).

Meeting, Whetstone, N., July 16.

comment

The tall of the Ever Ready statement is couched in relatively optimistic terms, but the overall mood is gloomy wherever the U.K. operations are mentioned. The position is summed up by the comparison made between the 9.2 per cent. pre-tax margin on sales which last year was increased by 14.2 per cent. made in the overseas operations. Taken in the context of U.K. exports being possibly priced out of traditional

markets and the cutback in capital spending, the total scene does not look encouraging for the £1.7m. rights issue.

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FINANCIAL TIMES SURVEY

Monday June 16 1975

Machine Tools

The machine tool industry remains basically in good shape, although the current downturn in investment is having its inevitable effect on order books. The recession serves to illustrate once again the problems of the trade cycle, for which an effective solution has yet to be found.

Hartle Machinery International

a machine tool success story for Britain

The Hartle organisation of companies continues its profitable advance this year with turnover well up on inflation.

Its market mix of carefully selected manufacturing companies linked to a national distributing and merchanting network is proving reassuringly rewarding despite the present economic climate.

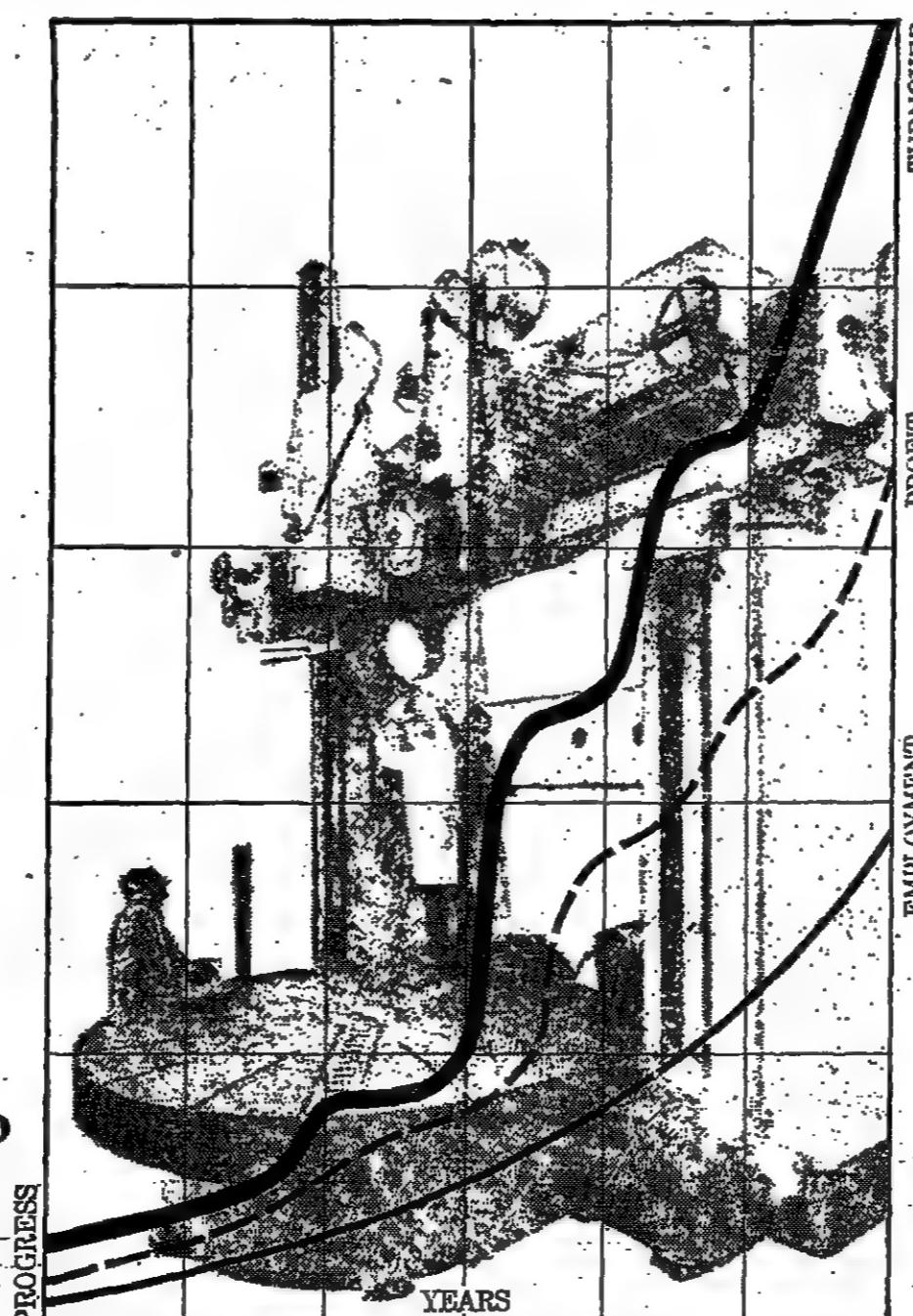
Group investment and marketing policies have been amply vindicated by steady progress, so they will be maintained as far as possible in the months ahead. Further expansion into specialised machinery manufacture or merchanting in Britain or Europe is possible.

HARTLE MACHINERY INTERNATIONAL LIMITED
Head Office—Manchester

MANUFACTURING (Sawing Division)

Alexander Machinery (Dudley) Ltd. Dudley.
High Duty Saws Ltd. Telford.
Qualters & Smith Brothers Ltd. Barnsley.
R. Highton Ltd. Burnley.

Power Hacksaws, Horizontal and Vertical Bandsaws,
Hydraulic Presses, Drilling Machines, Bandsaw
Blades and Iron Castings.



A Broadbent 10B Vertical Boring Mill being finally inspected prior to delivery in June 1975 to the Appleby-Frodingham Works of the British Steel Corporation.

Export Office: Wembley.

OVERSEAS

Hartle Machinery International Ltd. Liege, Belgium.
Edward G. Herbert (Overseas) Ltd.

MANUFACTURING (Turning Division)

Ackworthie Machine Tools Ltd. Kenilworth.
Broadbent Machine Tools Ltd. Mytholmroyd, Yorks.
Stanley Machine Tool Co. Ltd. Halifax.
The Bardsley Jig & Tool Co. Ltd. Oldham.

Rotary Transfer Machines, Bar and Chucking
Automatics, Heavy Duty and Oil Country Lathes,
Vertical Boring Mills, Deep Hole Borers, Drilling and
Tapping Attachments, Presswork, Jigs and Tools.

DISTRIBUTION DIVISION

Hartle-Stedall Ltd. Manchester.
One of Europe's leading machine tool distributors,
incorporating: Derek Hartle Machine Tools Ltd.,
Kerry Machine Tools Ltd, Lee and Hunt Ltd.,
M. C. Layton Machine Tools Ltd, Stancroft Ltd.,
Stedall-Pidgen Ltd.

U.K. Machine Tool Distribution Showrooms:
Birmingham, Bristol, Coventry, Glasgow, Haddenham,
Manchester, Nottingham, Sheffield, Wembley,
Wolverhampton.

European Machine Tool Distribution Showroom:
Liege, Belgium.

Stancroft Metalworking Machinery and Power
Transmissions Showrooms: Birmingham.

Hartle Machinery International Ltd

Bank House, Charlotte Street, Manchester M1 4ET.

MACHINE TOOLS II

Deserving of a better image

"IT IS a very good and very theoreticians, from consultants, successful industry which ex- or even from Government de- ports well and has a reputation parts. All have their own for first-class design. For many particular solutions or advice to companies it is a good industry offer on how to overcome both to be in." This is the machine actual and imagined problems tool business as seen by an of the industry: solutions em- interested "outsider," Mr. bracing rationalisation, national- Anthony Frodsham, chairman Isolation, capital investment for the machine tool Economic schemes or perhaps group technol- ogy. Alas, the fact remains that, however well-intended, the advice is far too often based on a premise which totally ignores the facts.

Oblivious

"There are still countless persons who speak of the area of technology encompassed by machine tools in the same breath as a lawn mower. The industry's critics remain oblivious of its contribution to the U.K.'s balance of payments over the past five years. They are astonished to learn that there are currently over 3,000 types and sizes of machine tools, ranging in price from a few hundred to many thousands of pounds.

"They disregard, because it suits them or they are too lazy to discover, that the British machine tool industry stretches from Angus to Cornwall, and floor or for management. What bright young man would want to go into an industry which is moribund? They are amazed at the size of the industry's annual turnover was supposedly dying a slow (around £250m.) and have no death? And even people who consider themselves well informed about the industrial scene often fail lamentably to troubles of one organisation understand the machine tool with the whole industry."

This last remark—although it continues to be true that in the U.K. the "image" of the machine tool industry can do with a good deal of polishing. There is a certain amount of boundless pride involved, of course. The many successful companies in the industry would prefer their contribution to the economy to be better recognised. But there is also a more practical side to the situation. The distorted view that this is a moribund industry has an appalling effect on recruitment—it is for the shop floor or for management. What bright young man would want to go into an industry which is moribund? They are amazed at the size of the industry's annual turnover was supposedly dying a slow (around £250m.) and have no death? And even people who consider themselves well informed about the industrial scene often fail lamentably to troubles of one organisation understand the machine tool with the whole industry."

In a speech to the annual meeting of the Machine Tool Trade Association last month, refers to the much-troubled retiring president, Mr. Tony Alfred Herbert, once Britain's biggest machine tool company from Anglos to Cornwall, and floor or for management. What bright young man would want to go into an industry which is moribund? They are amazed at the size of the industry's annual turnover was supposedly dying a slow (around £250m.) and have no death? And even people who consider themselves well informed about the industrial scene often fail lamentably to troubles of one organisation understand the machine tool with the whole industry."

It is doubly unfortunate for those who remain almost totally ignorant of the industry to have such a troubled giant among its prominent companies. The confusions of one of the most advanced areas of engineering science in exists not only in the U.K. Too this country.

"Unsolicited advice continues to be available on all sides, be it through the columns of our papers, from academic Hartle, chairman and chief ex-



Production line at Charles Churchill—part of the Tube Investments group—for the assembly of automatic chucking lathes.

ecutive of Hartle Machinery International: "The experience of machine tool industry will come to the bones of this notion naturally, a good many of them when the machine tool looked elsewhere for employment when the opportunities arose."

Herbert situation drags on the cycle. Last year flesh was put their future prospects, and on the bones of this notion naturally, a good many of them when the machine tool looked elsewhere for employment when the opportunities arose.

It made depressing reading. It outlined the debilitating effects of the cycle on the industry—and on others which supply the country's capital goods. It said the cycle creates an uneasy workforce, saps competitiveness overseas, encourages imports and cuts cash flow and profits as often as two years in every five.

The Little Nelly paper pointed out that returns on capital employed in the industry can decline by as much as 40 per cent during the periods of downturn. The unstable conditions cut cash flows and profits, make the raising of further finance very difficult, cause the machine tool makers to invest more cautiously and to keep the size of their operations too small rather than too large.

This combination of lack of capacity and shortages of skilled labour have the effect of putting an intolerable strain on the industry when the market is in demand follows the trough.

Delivery dates are extended, so overseas orders are lost and imports encouraged.

The trouble is that the effects of the cycle on the industry are not reversed when demand

period it covered was 24 per cent. As a result, falls in employment by the industry in the sector a distinct "ratchet effect".

A recession had been as high as 33 per cent, accompanied by a import shares during the upturn

severe decline in the intake of of the cycle, exceeding falls in young people. It had proved the downturn phase, the Little

impossible to get back many of Nelly pointed out. In other

these skilled people when they words, once imported machines were needed as the cycle of established themselves in the

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MACHINE TOOLS III

Advances in numerical control

FOR THIRTY YEARS or so there has been several projects afoot to take to mean the automatic do the rather difficult job of guidance of a machine tool so adaptive control which requires that its cutting edge follows a central computer constantly path required to produce the to supervise the performance of desired shape in the feedstock. A group of machine tools, produced in the earlier years of the period, the label "automatic" covered sequence control over units is starting to produce necessary functions of the unit parts whose dimensions are like starting drive motors before initiating cutting—plus the use of hardwired controllers fed by punched or magnetic tape. Generally, input information was limited to specifying the final position desired and the nature of the cutting path. The controller calculated the necessary travel velocities along the axes and started operations, guiding the work through velocity servers.

Enhanced

It was also suggested at the time that the in-process gauging could be combined with modification of machine settings from the central point. This would have ensured that no parts would have been out of tolerance and machine performance would have been considerably enhanced.

To these systems should be added direct numerical control in which the central computer also supervises the flow of parts from machine to machine along a strict machining sequence along a path to the realisation of these highly specialised forms of automatic data processing may have been full of technological glory, but certainly was based on a minicomputer known as the excellence of its software and brought in from the Ministry with changes in Government in a function now large amount of Government backing in the U.K. through the U.S. for incorporation into

then Ministry of Technology. Plessey systems at Poole, Dorset.

Challenged

But already the mini is being challenged by the makers of micro-computers, machines in which all logic and memory are concentrated on a handful of large-scale integrated circuit chips, instead of using one or two printed circuit boards full of components. At the same time, advances in circuit technology such as this have enabled electronic engineers to plan and design sequential control systems on the basis of integrated circuit read-only memories. These can be programmed and altered at will to suit changes in operations. Thus, where minis were beginning to dispense special purpose controllers, the latter, in new electronic liveries, are making a comeback.

In Britain, there have been many setbacks to domestic industries under constant heavy pressure from some of the largest companies overseas. Combined with this has been the extreme cyclical nature of machine tools and the intolerable chopping and changing in all but the most highly specialised instances for many years to come.

Even within the smaller com-

pany it is time to consider the special importance where the applies to repeat patterns of operations. Nevertheless, the point has been made by former Industry Secretary Anthony Wedgwood Benn that British industry is ill-equipped compared with major competing countries. It remains to be seen whether U.K. companies are to be re-equipped using a keyboard and display, making this a worthwhile taxation exercise, or whether ceaseless—and useless—precept will be used.

There can be no doubt that numerical control methods are the key to productivity—indeed even a simple digital gauging display can do a great deal this way—or that in the past U.K. developments have been too ambitious and have not looked closely at what the small company needs. And apart from one praiseworthy exception, no attempt has been made to take new developments in mobile workshops right to the factory yard, so that management and workers can judge of the improvement without the trauma of buying and installing untried equipment.

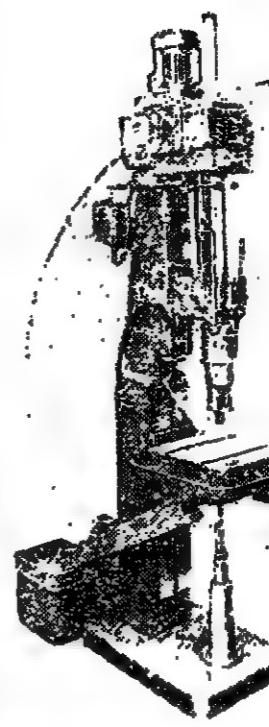
These inspection machines, which can only with difficulty be divorced from a high accuracy machine tool line, are themselves being automated and the Ferranti Conquest unit, for instance, can be used to prepare a numerical control tape by using the gauging probes to explore and describe a master component. It is of

whether the attraction of new cutting materials providing far higher working rates seized on by such companies as Kremer Automation, which offers an automatic control system for machine tools, both new and existing, which is described as "self-programming." Suitable for even the small company which does a large number of one-off jobs, it records the sequence of manual operations, including tool changes, on magnetic tape cassettes. When another component of this type is needed, all the operator has to do is play the recording in the control console. The same

Ted Schoefers

Recording

There is a case for even greater integration of the whole operation from design to quality control since the solid-state electronic equipment now available

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occurred the organisers of 1 EMO some disappointment.

"This is the only showplace of the U.K. strength at 1 EMO this year for European machine tool manufacturers and we would have thought that the U.K., which is an important manufacturing country, could have taken more space," M. Pierre Rouchard, commissioner general of 1 EMO, commented recently. The reasons for the U.K. companies' relative caution are understandable. For the British industry has been seeing its order books fall fast. The most recent figures put out by the Department of Industry at the end of last month, show that the three months to the end of February saw a 21 per cent drop in the new order intake—most of it accounted for by a 35 per cent decline in home orders—compared with the previous three months. And these are value figures, with price inflation masking an even heavier drop in real volume terms.

The downturn began last October, and it has already resulted in the recent warning from Mr. George Trowbridge, president of the Machine Tool Trades Association, that the industry is running out of work and could by this October be thinking carefully about the level of employment it can maintain.

Clearly, in these circumstances, cash is tight and frills have to be cut out. Among those, obviously, could be considered participation in trade exhibi-

Clarkson International. Always the sharp end of the U.K.'s machine tool industry.

Because Clarkson are brand leaders in this country's precision cutting tools market, a lot of people look to Clarkson for innovations in metal removal.

And they are not disappointed.

Time and again Clarkson produce "firsts" that are years ahead of the competition. Like the Autolock and Dedlock Chucks that originally made Clarkson's reputation.

Or the latest range of off-the-shelf Light Alloy Cutters (until this innovation buyers had always to order specials).



David Walker

Any engineer wants tools that minimize down-time. This means investing in quality in the first place. Because quality pays off in the long run.

Clarkson's position as the premier precision cutting tool manufacturer in the U.K. has been won over the years by pursuing an unwavering policy of providing quality at all times.

Clarkson

Clarkson International Tools Ltd., Nine Elms, Warwickshire.

MACHINE TOOLS IV

Big groups play a dominant role

THE BRITISH machine tool industry is made up of about 180 companies ranging from the very large—employing more than 6,000—to the extremely small—less than 50 on the payroll. About 60 of the individual companies are owned by the larger machine tool or other diversified engineering groups.

To get an idea of the way the larger companies dominate, you have only to know that the seven largest machine tool units account for 60 per cent of total U.K. production, worth in the region of £250m. a year.

The seven "majors" include, in strictly alphabetical order:

(1) John Brown which through Wickman and its subsidiaries has machine tool manufacturing turnover of £41m. and profits before tax of £2.5m.

(2) Cincinnati Milacron, turnover around £20m. and with over 2,500 employees. This is a private company owned by the giant U.S. machine tool group of the same name.

(3) The George Cohen 600 Group, which has now begun to tell the world it is the U.K.'s largest maker of machine tools, and which numbers among its 18 subsidiaries such well-known names as Colchester Lathe, W. E. Sykes, F. J. Edwards, Hydro Machine Tools, Gamet Products, Richmond Machine Tool and Dicksons (Engineering). Last year the 600 Group's machine tool division made profits of £3.7m. on a turnover of £36.7m.

(4) B. Elliott, which takes in Butler Machine Tool and Snow and Company as well as Elliott and Machine Tools. Elliott's has diversified into other activities while cutting back on its machine tool operations for which it gives no separate statistics. The Elliott group as a whole last year had a turnover of £36.7m.

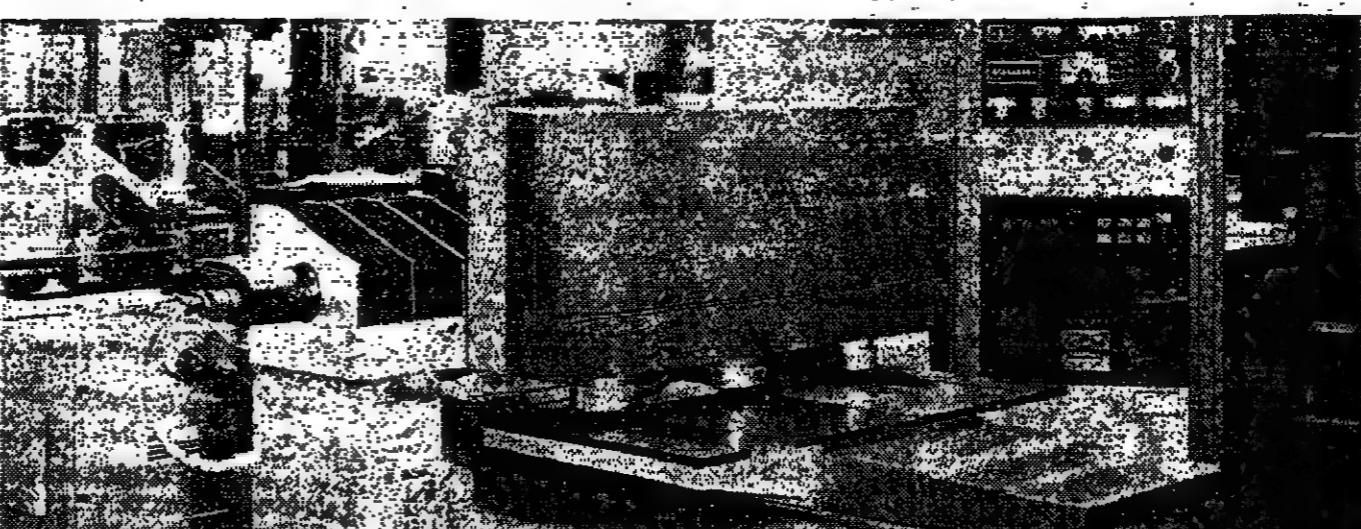
(5) Alfred Herbert, for some years the ailing giant of the industry and its biggest business in terms of turnover and numbers employed, some 6,500 at the moment. Herbert's turnover last year was £39m.

(6) Staveley Industries, which has also been actively slimming down machine tool operations. Its manufacturing companies are Asquith, Drummond, Kearns-Richard, and Staveley-Lapointe. The company is reluctant to say exactly how much of last year's £57.4m. of turnover and £3.5m. profit was from machine tool operations. Chief executive Dr. Adolf Frankel maintains, however, that the division now described as the "machine tool" division should more realistically be called the "mechanical engineering" division.

(7) Tube Investments' "machine division" which the company itself maintains is "one of the largest machine tool, machinery and associated equipment organisations in Europe." Among its best-known manufacturing businesses are Matrix and Charles Churchill.

It's machine division made profits of £1.5m. on sales of £35.5m. last financial year.

Among the successful medium-sized concerns is Hartle Machinery International, previously called Edward G. Herbert, but which changed its name for obvious reasons. Hartle has grown considerably in recent years via acquisitions and its machine tool manufacturing "names" include Ackworthie, Alexander Machinery (Dudley), Broadbent, Qualters and Smith Bros., and Stanley Machine Tool. Its distribution division, headed by Hartle Stedall, claims to be "one of



The Plessey Numerical Controls NC 1130 system, which has been integrated with the Europa R-8-1000 printed circuit board routing machine of Vero NC Developments.

the largest and most efficient machine tool operations. The machine distribution businesses ITC had a hand in the getting together of two smaller companies at the high technology end of the industry—Kearney and Trecker and the machine tool part of Marwin. These merged to become Kearney and Trecker Marwin.

This makes it slightly smaller than Wadkin, best-known for its woodworking machinery. Wadkin's turnover last year was £13.6m. while profits reached £1.6m. Another publicly-quoted company in the sector, A. A. Jones and Shipman, made taxable profits of just over £1m. on £8m. of turnover.

Unquoted

Of the unquoted concerns, Adcock-Shepley, now part of the U.S. industrial conglomerate Textron, reported profits of £635,000 on 1973 sales of £6.34m. and there is every reason to suppose results have improved since then.

Most of the majors were built up during the mid-1960s.

This period saw the growth of Alfred Herbert, Tube Investments, B. Elliott and Staveley.

Herbert will join Kearney and Trecker Marwin to form the machine tool part of the National Enterprise Board's

portfolio. For KTM, like KTC, Staveley also almost died to death because of the poor showing of its machine tool businesses. During the build-up days it took an interest in a wide variety of machine tool sectors. As part of his rescue scheme, Dr. Frankel, called in in 1970 to sort out the desperate situation, concentrated on companies concerned with the heavy end of the market. Once there were 5,000 working in Staveley's machine tool division and now there are 2,500. And as previously stated, quite a number of the division's activities now have nothing to do with machine tool manufacture.

Not only that, Dr. Frankel has made sure that the other parts of Staveley have been developed so that currently the company which had a technological lead over all competition is now a company which could supply the whole of Western European demand for one particular type of machine tool.

The smaller company was also more flexible, so the argument continued. It was able to change direction more quickly, to adapt its product to suit the customers' requirements.

The story at B. Elliott is very similar, although Elliott did not reach such dire straits as did Staveley. Elliott's acquisitions

apart from Herbert and

Trecker Marwin, the customer wanted

in the 1960s turned it into the rather than having to be a leading supplier of standard machine tools in the U.K. with much of its time with production problems.

What all this assumed, however, was that the new groups would be run from a central centre. Where this central control did come into effect the results were indeed poor.

But some parts of the industry had led the way with a centralised structure. The Group had one main identity of the machine tool company, with cheaper labour. The substantial rationalisation saw the number of factory locations in the U.K. halved and the workforce reduced by 45 per cent. Like Staveley, Elliott moved into heavy, more sophisticated machine tools.

Diversification took place and to day only 20 per cent of Elliott's total sales is from British-made machine tools. The rest of the business is made up of factory operations, sales of imported machines, general engineering and overseas subsidiaries which bring in one-fifth of the profits.

Critics of the mergers that took place during the 1960s pointed to the fact that it is mainly the smaller machine tool companies which have best weathered the years of intense depression in the industry. The smaller concerns, it was argued, were more successful because they usually had a product which had a technological lead over all competition or was a company which could supply the whole of Western European demand for one particular type of machine tool.

In spite of all this, though, will take a great deal more to persuade most of the independent in the industry that they should join a larger group. In any case, apart from Hartle, the large companies seem to be showing no real inclination to add to their existing machine tool interests, apart from perhaps adding to their agreements.

Once the Alfred Herbert situation is sorted out, and Vickery has made up his mind about KTM, the industry structure should stabilise for some years to come. And with that there will be no severe crises from the current recession in the industry.

Kenneth Goodwin

Two-way missions to foster exports

RECENTLY 20 Argentinian industrialists were in the U.K. for a two-week tour of some part of Britain's machine tool industry. At the end of the visit, one of the Argentinians recalled that he had recently been in the market for a particular machine tool. He had the choice of three from manufacturers around the world. He did not choose the British machine on offer because he knew very little about the company which made it. During the visit, however, he had the chance to visit that particular company's main factory and see the kind of machine tools it was making. "I wish," said the Argentinian, "I had bought British now that I have seen what that company is doing."

The Argentinians were on an "inward mission" to the U.K. organised by the Machine Tool Trades Association with the backing of the British Overseas Trade Board—part of the Department of Industry.

This particular visit had not been in the 1975 schedule. But

the MTTA's export officer, Mr. David Bromige, had discovered that not only was there soon to be an upsurge in demand in Argentina for machine tools but also there was widespread interest in a visit to the U.K.

Mr. Bromige combined a trip to the British Industrial Exhibition in São Paulo with a machine tool makers took 37 per cent of the U.K. space,

with research for report issued when he got home. The message in the report (which was mainly concerned with providing as much information as possible about industrial conditions in Brazil) was that U.K. manufacturers contemplating the setting-up of joint ventures in Brazil or considering having their equipment made there under licence should move quickly. For German and Japanese companies are already making progress there and in some areas "their success will mean the market will be virtually closed to the competition because once manufacture in Brazil is established tariff barriers come into effect to keep imports of similar machines."

There has also been a mission to Czechoslovakia at the invitation of the State purchasing agency. "This arose out of mutual wishes to improve the two-way trade of the countries and the Czech concern for our knowledge of their market for machine tools. The result was an offer of space at the Brno Technical Fair in September this year, which was quickly accepted," says the MTTA. "Indications are that some inquiries will be made in this market."

The MTTA sees as one of its main tasks the identification of future major markets. In the past the "nursing" of the Spanish machine tool market certainly paid off with exports nearly doubling in value to £2.7m. in the two years between 1971 and 1973.

Possible markets looked at last year included Indonesia and Brazil. The MTTA's director general, Mr. Howard Barrett, took a detour to Indonesia on his way home from the Japanese International Machine Tool Fair last October. He reported that the Indonesian market was not technologically ready for an inward mission just yet, although a close watch should be kept on developments.

For follow-up action after any kind of mission is particularly important. The idea behind the "inward missions" is that permanent contacts can be made and the visitors can see just how wide a selection of machine tools is available in the U.K. and just how advanced on the technological front they are.

The pattern of the inward missions is that they are sponsored by the MTTA with financial support from the British Overseas Trade Board. Companies interested in the particular countries the visitors come from can arrange to have them visit one of their manufacturing units. The cost of entertaining retired MTTA president Mr. Barrett with the party for a day usually works out at between £300 and £500 a day in Iran last October as

well. Iran is proving to be one of the most interesting markets—cheap at the price when you consider that the company gets of late and the trip by 20 high-powered machine-tool MTTA representatives is leading to further collective and individual company visits."

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the problem—perhaps for take 30m. or so of machine tools a year during the five-year plan which began this year.

The current year's activity has begun with emphasis on Eastern Europe, with lecture missions to Poland and Rumania. Following the Director-general's report on Iran, a provisional 1975 programme includes participation in the Leipzig Fair and a possible British Machine Tool exhibition in Bologna, Spain.

In making its plans, the MTTA says that, while priority markets are vital to its mission will visit East Germany in September and an exhibition in South Africa in October. The

provisional 1975 programme includes participation in the Leipzig Fair and a possible British Machine Tool exhibition in Bologna, Spain.

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The Financial Times Monday June 16 1975

INDUSTRIALS—Continued

Period	Stock	Last	1/2	1/4	1/8	F.M.	P.R.	Price	Last	1/2	1/4	1/8	F.M.	P.R.	Price	Last	1/2	1/4	1/8	F.M.	P.R.	Price	Last	1/2	1/4	1/8	F.M.	P.R.	Price					
Oct.	Agenor Glass Corp.	54	21.2	8.7	1.6	2.6	0.6	June	Wood & Sons Sp.	13	24.4	22	1.6	6.1	1.4	Sept.	Wood & Sons Sp.	20	21.1	11.2	1.6	11.8	1.4	Nov.	Sociedad Ind. Int.	100	14.1	11.2	5.3	1.6	11.8	1.4		
May	Algiers Min. Co.	24	21.4	7.5	3.6	5.0	0.6	May	Rodd & Barnes Sp.	14	14.3	3.6	8.9	4.9	1.4	Sept.	Portugal Imp.	20	11.1	13.3	1.6	12.4	1.4	Dec.	American Trust.	37	21.3	5.8	1.0	5.5	2.8	1.4		
May	Algiers Industries	100	24	21.4	16.2	2.7	10.0	1.4	July	Gold & Wood (P.L.)	12	67.5	58	16.1	7.1	5.6	Oct.	Grenadier Sp.	50	32.5	5.4	1.0	5.5	2.8	1.4	Jan.	Sociedad Ind. Int.	100	14.1	11.2	5.3	1.6	11.8	1.4
April	Almondine Sp.	20	21.4	11.5	4.7	10.0	0.6	April	Sept. Yates Farm Sp.	64	12.1	71.6	1.6	2.4	1.4	Sept.	Grenadier Sp.	50	32.5	5.4	1.0	5.5	2.8	1.4	Jan.	Mar. H. Land RESS.	100	14.1	11.2	5.3	1.6	11.8	1.4	
Nov.	Almondine Sp.	100	24	21.4	11.5	4.7	10.0	1.4	Nov.	November Zetters Sp.	21	30.1	2.7	2.5	1.4	1.2	Nov.	July 1st	207	12.7	22.8	2.2	1.7	3.5	1.4	Jan.	Do. Assd.	70	30	1.5	5.1	1.2	1.4	
Oct.	Almondine Sp.	100	24	21.4	11.5	4.7	10.0	1.4	Nov.	November Zetters Sp.	21	30.1	2.7	2.5	1.4	1.2	Nov.	July 1st	207	12.7	22.8	2.2	1.7	3.5	1.4	Jan.	Do. Assd.	70	30	1.5	5.1	1.2	1.4	
Oct.	Almondine Sp.	100	24	21.4	11.5	4.7	10.0	1.4	Nov.	November Zetters Sp.	21	30.1	2.7	2.5	1.4	1.2	Nov.	July 1st	207	12.7	22.8	2.2	1.7	3.5	1.4	Jan.	Do. Assd.	70	30	1.5	5.1	1.2	1.4	
June	Almondine Sp.	29	21.4	4.9	4.3	5.2	0.6	July	Hughes Ind. Ed.	30	21.2	29.2	3.0	9.0	5.8	Sept.	July 1st	207	12.7	22.8	2.2	1.7	3.5	1.4	Jan.	Do. Assd.	70	30	1.5	5.1	1.2	1.4		
July	Almondine Sp.	29	21.4	4.9	4.3	5.2	0.6	July	Hughes Ind. Ed.	30	21.2	29.2	3.0	9.0	5.8	Sept.	July 1st	207	12.7	22.8	2.2	1.7	3.5	1.4	Jan.	Do. Assd.	70	30	1.5	5.1	1.2	1.4		
Aug.	Almondine Sp.	100	24	21.4	11.5	4.7	10.0	1.4	Aug.	Sept. Yates Farm Sp.	64	12.1	71.6	1.6	2.4	1.4	Sept.	July 1st	207	12.7	22.8	2.2	1.7	3.5	1.4	Jan.	Do. Assd.	70	30	1.5	5.1	1.2	1.4	
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Dec.	Almondine Sp.	100	24	21.4	11.5	4.7	10.0	1.4	Dec.	Almondine Sp.	100	24	21.4	11.5	4.7	10.0	1.4	Dec.	Almondine Sp.	100	24	21.4	11.5	4.7	10.0	1.4	Dec.	Almondine Sp.	100	24	21.4	11.5	4.7	10.0
Jan.	Almondine Sp.	29	21.4	4.9	4.3	5.2	0.6	Jan.	Almondine Sp.	29	21.4	4.9	4.3	5.2	0.6	Jan.	Almondine Sp.	29	21.4	4.9	4.3	5.2	0.6	Jan.	Almondine Sp.	29	21.4	4.9	4.3	5.2	0.6			
Feb.	Almondine Sp.	29	21.4	4.9	4.3	5.2	0.6	Feb.	Almondine Sp.	29	21.4	4.9	4.3	5.2	0.6	Feb.	Almondine Sp.	29	21.4	4.9	4.3	5.2	0.6	Feb.	Almondine Sp.	29	21.4	4.9	4.3	5.2	0.6			
March	Almondine Sp.	29	21.4	4.9	4.3	5.2	0.6	March	Almondine Sp.	29	21.4	4.9	4.3	5.2	0.6	March	Almondine Sp.	29	21.4	4.9	4.3	5.2	0.6	March	Almondine Sp.	29	21.4	4.9	4.3	5.2	0.6			
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May	Almondine Sp.	29	21.4	4.9	4.3	5.2	0.6	May	Almondine Sp.	29	21.4	4.9	4.3	5.2	0.6	May	Almondine Sp.	29	21.4	4.9	4.3	5.2	0.6	May	Almondine Sp.	29	21.4	4.9	4.3	5.2	0.6			
June	Almondine Sp.	29	21.4	4.9	4.3	5.2	0.6	June	Almondine Sp.	29	21.4	4.9	4.3	5.2	0.6	June	Almondine Sp.	29	21.4	4.9	4.3	5.2	0.6	June	Almondine Sp.	29	21.4	4.9	4.3	5.2	0.6			
July	Almondine Sp.	29	21.4	4.9	4.3	5.2	0.6	July	Almondine Sp.	29	21.4	4.9	4.3	5.2	0.6	July	Almondine Sp.	29	21.4	4.9	4.3	5.2	0.6	July	Almondine Sp.	29	21.4	4.9	4.3	5.2	0.6			
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FINANCIAL TIMES

Monday June 16 1975



Sterling warning to U.K. tourists

By ROY HODSON

BRITISH TRAVELLERS abroad were warned by a spokesman for the Association of British Travel Agents yesterday that "a few hotels, restaurants, and shops might be reluctant to accept sterling travellers' cheques and pounds". Adding that such a situation could arise in times of difficulty for sterling, the ABTA official urged people to check with their bank.

The weekend saw heavy cash-in of travellers' cheques into foreign currency at Heathrow banks there called it a "mad dash".

Holiday £

at Heathrow yesterday

MIDLAND BANK

	Selling price	Buying price
Austria	Sch.37.00	39.00
France	Frs.9.00	9.30
W. Germany	DMS2.56	5.48
Greece	Dr.66.00	70.00
Italy	Lire1.395	1.440
Spain	Ptas.124.0	129.5
U.S.	\$2.28	2.33

BARCLAYS

Same except for:

W. Germany DMS2.5 5.45

Greece Dr.44.25 48.00

U.S. \$2.275 2.325

However, Barclays Bank International was advising people not to convert all their cheques into foreign currencies before going abroad. An official said "the pound steadied on Friday as a result of the good trade figures, and inquiries through our Continental branches suggest there will be no difficulties in cashing sterling cheques at European banks."

When a party organised by Swan Tours arrived at London Airport on Saturday night from Majorca they claimed they had been forced to pay a "currency" surcharge of £5 each at the end of their holiday before they were allowed to travel to the airport for the flight home.

The rush continued at Heathrow yesterday to exchange travellers' cheques for foreign currency. Banks reported that business had been brisk, even though the currency exchange notice boards at the banks at Heathrow had remained reasonably stable throughout the day.

Weather

U.K. TO-DAY

SHOWERS, bright or sunny intervals. Perhaps longer rain in E. at first, then N. and E. London, E. Midlands.

Sunny intervals, scattered showers, some longer rain spells at first. Wind W., light. Max. 17°C (63°F).

E. Anglia, E. and N.E. England Cloudy, rain spells at first, bright with showers later. Wind N.W., light. Max. 15°C (59°F).

S.E. Cent. S.W.-N.W. and Cent. N. England, Midlands, Channel Is., Wales, Lakes.

L. of Man

Sunny intervals, scattered showers. Wind N., light or moderate. Max. 17°C (63°F).

Borders, Edinburgh and Dundee, S.W. and N.W. Scotland, Glasgow, Cent. Highlands, Argyll, W.

Ireland

Sunny intervals, scattered showers. Wind N., light or moderate. Max. 14°C (57°F).

Aberdeen, Moray Firth, N.E. Scotland

Bright intervals, showers. Wind N.E., light or moderate. Max. 12°C (54°F).

Orkney, Shetland

Bright intervals, showers. Wind N.E., moderate. Max. 10°C (50°F).

Outlook: Dry, sunny spells in most parts after some showers in S.E. Cloudy later, with drizzle in some W. areas. Becoming warmer.

Lighting-up: London 21.49,

Manchester 23.10, Glasgow 22.34,

Belfast 22.32.

BUSINESS CENTRES

	Y'day	Mid-day	Mid-night	Y'day	Mid-day	Mid-night
Alexander	S 38	56	56	London	R 17	17
America	F 14	57	57	Madrid	P 26	26
Asia	S 22	57	57	Moscow	R 11	11
Bahrain	S 26	57	57	Melbourne	P 11	11
Barcelona	F 23	57	57	Milan	P 25	25
Berlin	S 26	57	57	Munich	R 24	24
Bertrand	F 23	57	57	Northern Ireland	P 25	25
Berlitz	S 23	57	57	Paris	P 25	25
Birmingham	C 15	54	54	Stockholm	C 24	24
Bristol	C 13	54	54	Tokyo	P 13	13
Brown	S 26	57	57	Vienna	C 21	21
Budapest	S 26	57	57	Washington	C 21	21
B. Aires	S 16	57	57	Wellington	C 21	21
Calif	S 16	57	57	Zurich	C 21	21
Cardiff	S 14	57	57			
Carmarthen	S 14	57	57			
Coventry	C 14	57	57			
Corbridge	C 14	57	57			
Dublin	C 12	57	57			
Edinburgh	F 16	57	57			
Frankfurt	C 24	57	57			
Glasgow	S 11	57	57			
Helsinki	T 13	57	57			
H. Kong	C 26	57	57			
Johannesburg	S 17	57	57			
Lisbon	C 17	57	57			
London	C 17	57	57			

HOLIDAY RESORTS

	Y'day	Mid-day	Mid-night	Y'day	Mid-day	Mid-night
Alacante	C 21	57	57	Jersey	P 17	17
Almeria	C 21	57	57	Las Palmas	S 13	13
Barbados	C 21	57	57	Lisbon	C 21	21
Biarritz	C 14	57	57	Ljubljana	C 21	21
Blackpool	C 14	57	57	Malaga	C 22	22
Boulogne	C 19	57	57	Malta	C 22	22
Casablanca	C 14	57	57	Malta	C 22	22
Cape Town	C 17	57	57	Mauritius	C 22	22
Carlo	C 17	57	57	Mykonos	C 22	22
Denmark	C 25	57	57	Nicosia	C 22	22
Dubai	C 14	57	57	Noto	C 17	17
Edinburgh	C 14	57	57	Oporto	C 17	17
Funchal	C 26	57	57	Rhodes	C 17	17
Gibraltar	C 14	57	57	Salzburg	C 17	17
Guanajuato	C 14	57	57	Turks & Caicos	C 17	17
Inverness	R 10	57	57	Tunis	C 17	17
Istanbul	F 24	57	57	Valencia	C 17	17
S-Sunny: C-Cooler: F-Fair: R-Rainy: T-Thunder: W-Windy: H-Hazy.						

U.S. backs retaliation if oil price jumps

BY PAUL LEWIS, U.S. EDITOR

THE U.S. Administration will propose that the Western industrial countries consider some form of retaliation against the OPEC cartel if it raises the price of oil by any significant amount later this year.

At the moment, Dr. Kissinger has not abandoned hope of preventing any big increase by diplomatic means—although it cannot be said that all his aides are equally optimistic. But should he fail, his present instinct is to suggest reprisals by the oil consuming nations against the oil exporters.

Weapon
There is already quite a debate going on within the Administration over what the West could hope to do in the event of another oil price rise. And two rather tentative conclusions have emerged—neither of them very encouraging.

The first is that the only economic weapon the Western industrial countries have against OPEC lies in their exports to the oil producing countries. They could try to restrict food exports, although this would primarily affect only Iran and Venezuela.

A more effective move might be to restrict or increase the price of other industrial exports towards the OPEC countries, perhaps through a special tax that would recoup the additional money paid for oil.



Dr. Kissinger ... considering oil reprisals.

WASHINGTON, June 15.

bargo. But as matters stand, Dr. Kissinger intends to suggest concerted political action of some kind against OPEC if it increases prices again this year, regardless of European feelings.

Tolerable

Whether the U.S. can stave off such a price rise by diplomatic means, remains a matter of dispute within the Administration. Dr. Kissinger appears to be pinning his hopes again on Saudi Arabia refusing to make the production cut-back necessary to sustain a higher price. But some officials fear a world economic upturn will strengthen OPEC's hand, while calculations suggest that Saudi Arabia could afford to reduce production well below its current level of about 5.5m. barrels a day, and perhaps go as low as 3m. to 4m. barrels daily.

There are also some signs of disagreement within the Administration over how much of a price increase would be considered tolerable in September. At the moment, Dr. Kissinger would be prepared to embark on any kind of confrontation course with the oil producing nations.

This might change if OPEC proposed an increase of \$2 or \$3 per barrel, or if the Middle East situation produced another em-

Concern over tanker glut grows

BY STEWART FLEMING

GROWING CONCERN in the oil industry about the glut of tankers of over 150,000 dwt, and the pressure which the growing surplus capacity in the market is putting on tanker owners, is shown by a report prepared by one of Britain's major oil companies.

The broad outlines of the financial crisis now enveloping the tanker market and threatening several owners and their bankers is well known in oil and shipping circles, but the decision by the British oil company to publish details of an internal report on the subject reflects its belief that the full impact of the situation is inadequately understood.

Drastic

In particular, it appears that the oil company is anxious to underline the urgent need for a drastic programme to cancel the bulk of the VLCC tankers now on order in the world's shipyards.

The report estimates that on

the current building programme and in the absence of such cancellations, by 1980 the world's tanker fleet will have reached about 43,000 dw tons and about half will be lying idle.

In these circumstances, there would have been an enormous waste of resources building ships which are not needed. In addition, many of the oil companies would find themselves making ex gratia payments to owners from whom they are chartering tankers (some are already doing this) and they would probably find themselves using a bigger proportion of their own tankers to transport oil.

Datastream make the point that just as reported profits were exaggerated in 1973 and 1974 by stock profits, so the improving trend in 1975 could be disguised by equally misleading stock losses. But they are confident that the recovery will continue on a substantial scale; after all, margins according to the March estimate had only crept back to 5.3 per cent (related to gross output) and that compares with around 11 per cent in the last cycle.

The oil company suggests that at present none of the parties involved in the shipyards building the surplus tankers, the banks financing them, the owners who ordered them or the Government involved, seem ready to set in train and bear the costs of the cancellation programme needed.

Violence tops Ulster agenda

By Our Belfast Correspondent

THE WEEK-END spate of shootings and bombings in Ulster, in which two people were killed and a dozen injured, is certain to be top of the agenda when the Northern Ireland Secretary, Mr. Merlyn Rees, meets police and Army chiefs for his weekly security review to-day.

They will be looking not only at security measures but at what is behind the latest incidents. It is always risky, as Mr. Rees said himself, to apportion responsibility in particular cases, which may be sectarian, between rival groups on the same side or within a single group.

But there does seem clear evidence that much of this week-end's violence was self-retaliatory.